

Taxonomic Paper

Checklist of terrestrial Parasitengona mites in Fennoscandia with new species- and distribution records (Acariformes: Prostigmata)

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Abstract

Background

The knowledge of terrestrial Parasitengona in Fennoscandia lies far behind that of their aquatic counterparts, the water mites (Hydrachnidia). Based on new inventories, we provide primary data and an annotated checklist of terrestrial Parasitengona in Fennoscandia including 107 species. Out of these, nineteen species are new findings for the region and five are species potentially new for science. Twenty-three species are new for Norway, fourteen for Finland and eleven for Sweden. The known recorded fauna today of terrestrial Parasitengona is 80 species for Norway, 54 for Sweden and 48 for Finland. Primary data include georeferenced locality data as well as collecting techniques and microhabitat to increase the knowledge on species' habitat requirements.

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Keywords

Distribution, metadata, GBIF, Norway, Sweden, Finland, chiggers, velvet mites, faunistics

Introduction

Parasitengona mites comprise two main ecological assemblages: the aquatic water mites (Hydrachnidia) and the terrestrial parasitengones (Trombidia; Figs 1, 2, 3, 4, 5, 6, 7, 8, 9). Together, the two groups form the monophyletic clade Parasitengona, characterised by their complex life cycle. Larvae of both aquatic and terrestrial lineages parasitise arthropods with few exceptions. The exceptions pertain to predatory or pollinivorous forms and the "chiggers", the vast majority of which have tetrapod vertebrates as hosts. The origin of water mites as either a sister group to, or being derived from within, terrestrial Parasitengona has been debated (Witte 1991, Welbourn 1991), but the latest evidence suggests a nested position of water mites (Dabert et al. 2016, Stålstedt 2017). There have been significant studies of water mites in Fennoscandia by Olov Lundblad, Sig Thor, Pauli Bagge and others (Thor 1897a, Thor 1897b, Thor 1899, Thor 1901, Lundblad 1927, Lundblad 1962, Lundblad 1968, Mehl 1979, Bagge and Bagge 2009, Stålstedt et al. 2013) and, at least in Sweden, the fauna is considered relatively well known. The terrestrial counterpart, Trombidia, however, has been largely ignored and the state of knowledge for the Fennoscandian fauna is very poor. However, in recent years the terrestrial parasitengones of Sogn og Fjordane in Norway (Makol and Gulvik 2002), as well as Finnish Erythraeoidea and Trombidiidae (Makol et al. 2006, Gabryś et al. 2009) have been studied. Several species known from larvae were recorded from Northern Europe by Haitlinger (2000) and Haitlinger (2008). In Sweden, there have been few studies in recent years. Gärdenfors et al. (2003) summarised the current state of knowledge of multicellular life in Sweden and reported twelve species of Trombidia. This is without doubt a vast underestimate as, for example, 142 species are known from Poland (Makol and Wohltmann 2012, Moniuszko and Makol 2014, Stålstedt et al. 2016, Makol and Korniluk 2017), which is perhaps the best studied country in Europe. Therefore, we here present an updated checklist for Fennoscandia, based on new inventories.

In the checklist, there are 107 species of terrestrial Parasitengona for Fennoscandia. Out of these, nineteen are new findings for the region and five are potential new species for science. In Norway, we present twenty species new for the country, plus three potentially undescribed species. In Sweden, there were nine species new for the country, plus two potentially undescribed species. In Finland, fourteen species were new findings for the country. This raises the known fauna to 80 species recorded for the Norwegian fauna, 54 for Sweden and 48 for Finland. In total, there are 499 records in the checklist, 383 of which are Norwegian.



Figure 1. doi *Allothrombium* sp. Photo Anders Lindström.

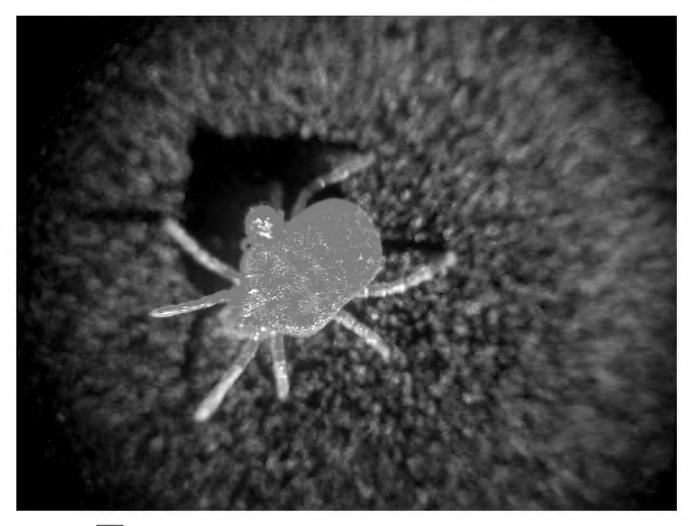


Figure 2. doi

Calyptostoma sp. parasitised by larva of Johnstoniana sp. Photo Joanna Mąkol.



Figure 3. doi

Erythraeus regalis. Photo Joanna Mąkol.



Figure 4. doi *Johnstoniana* sp. Photo Joanna Mąkol.

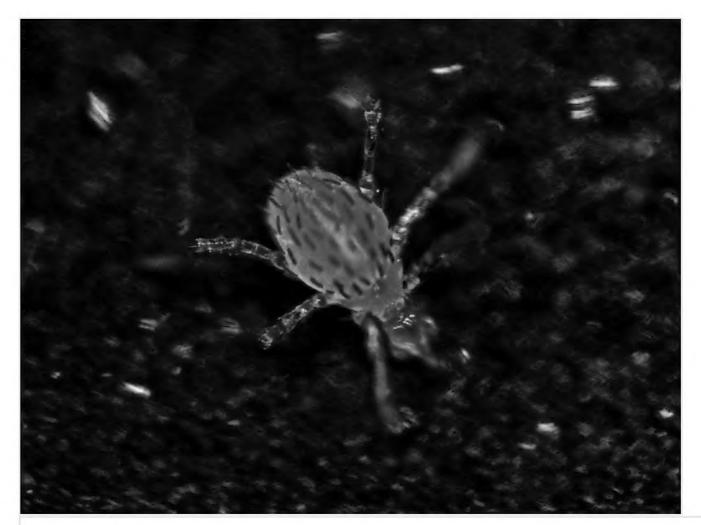


Figure 5. doi

Leptus sp. Photo Joanna Mąkol.



Figure 6. doi

Trombidium sp. Photo John Hallmen.



Figure 7. doi

Leptotrombidium russicum. Photo Joanna Mąkol.



Figure 8. doi

Platytrombidium fasciatum. Photo Magdalena Felska.



Figure 9. doi

Abrolophus sp. Photo John Hallmen.

Materials and methods

Terrestrial Parasitengona mites were collected between 1966 and 2013 at 131, 23 and 43 different localities in Norway (NOR), Sweden (SWE) and Finland (FIN), respectively. Some localities were visited on multiple occasions (different dates) and some geographical localities (same coordinates) contain multiple collecting events (different microhabitats or methods). Six counties were visited in Norway: Akershus, Buskerud, Hordaland, Oppland, Sogn og Fjordane and Vestfold. In Sweden, sampling took place in eight counties: Jönköping, Kalmar, Skåne, Stockholm, Södermanland, Uppsala, Värmland and Västerbotten. In Finland, seven counties were visited: Central Finland, North Karelia, Northern Ostrobothnia, Northern Savonia, Ostrobothnia, Southwest Finland and Åland Islands. Collectors were Ingvild Austad (IA), Agata Białecka (AB), Jacek Długosz (JD), Magdalena Felska (MF), Maria E. Gulvik (MG), Kalervo Heikka (KH), Rasmus Hovmöller (RH), Ari Karhilahti (AKA), Andrzej Kaźmierski (AK), Małgorzata Kuty (MK), Seppo Koponen (SK), Joanna Łaydanowicz (JŁ), Pekka T. Lehtinen (PTL), Joanna Mąkol (JM), Genowefa Mielnicka (GM), Ritva Niemi (RN), Veikko Rinne (VR), Anna Seniczak (AS), Piotr Skubała (PS), Sabina Słomian (SS), Sławomir Smoliński (SSM), Jeanette Stålstedt (JS), Monika Witkowska (MW) and the Swedish Malaise Trap Project (SMTP). The larva (L) or active postlarva (PL) (i.e. deutonymph (DN) or adult (AD)) were collected with Tullgren funnels (T), sweeping net (C), litter sifting net (S), Malaise trap (M), pitfall trap (P) or directly (U). The information on instars, known for particular species ([L] and/or [PL]), is provided after each species name. When available, each reported specimen is associated with the microhabitat of the collecting circumstances to increase the knowledge of species'

ecology and habitat requirements. Records are georeferenced with latitude and longitude coordinates in decimal degree format (WGS84) and altitude in metres, when available. Finnish collectors used a national uniform grid system (yhtenäiskoordinaatisto, YKJ) for mapping localities and this was converted into decimal degrees for the checklist. The locality records are downloadable as a csv file for easy creation of, for example, distribution maps with GIS tools. References to earlier records from Fennoscandia are provided in addition to new locality data. Taxa of uncertain identity (Trombiium russatum C.L. Koch, 1837, Trombidium procerum C.L. Koch, 1837, Trombidium hortense C.L. Koch, 1837, Trombidium corrugatum C.L. Koch, 1837, Trombidium assiratum C.L. Koch, 1837, Trombidium erythrellum C.L. Koch, 1837 and Rhyncholophus paludicola C.L. Koch, 1837), recorded by Andersén (1863) from Sweden, are not considered here due to their overall uncertain status followed by likely misidentifications. Each species is linked to the GBIF occurrence database. Under the distribution subheading, only the distribution in Fennoscandia is considered. Species, genus and family level taxonomy follows Makol and Wohltmann (2012) and Makol and Wohltmann (2013). The latter sources (Makol and Wohltmann 2012, Makol and Wohltmann 2013) also contain references to the original description of species, with the name in its original combination, author, date and page number of the description. Potential new species (or hitherto unknown instars) will be described elsewhere and are reported as "sp." here, with a note explaining the status. Species with only single occurrences in literature and without recent records in Fennoscandia are considered as questionable identifications.

Terrestrial Parasitengona

Superfamily Calyptostomatoidea

Family Calyptostomatidae Oudemans, 1923

Calyptostoma velutinum (Müller, 1776) [PL, L]

• GBIF http://www.gbif.org/species/4539742

- a. county: NOR-Hordaland; locality: In the vicinity of Stanghelle; verbatimElevation: 50;
 decimalLatitude: 60.5492; decimalLongitude: 5.7344; samplingProtocol: T; eventDate: 24/06/2001; habitat: Soil, litter; recordNumber: 1 L; recordedBy: MG
- county: NOR-Hordaland; locality: Blinde; verbatimElevation: 100; decimalLatitude: 60.4639; decimalLongitude: 5.3786; samplingProtocol: T; eventDate: 04/07/2001; habitat: Moss, litter, soil; recordNumber: 2 L; recordedBy: MG
- c. county: NOR-Hordaland; locality: Haukeland, in the vicinity of Bergen;
 verbatimElevation: 100; decimalLatitude: 60.3528; decimalLongitude: 5.4478;
 samplingProtocol: T; eventDate: 05/07/2004; habitat: Soil, humus, litter; recordNumber: 1 L; recordedBy: MG

- d. county: NOR-Hordaland; locality: Dale; verbatimElevation: 50; decimalLatitude: 60.5881; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 22/08/2006; habitat: Soil, humus; recordNumber: 1 AD; recordedBy: MG, JŁ
- e. county: NOR-Sogn og Fjordane; locality: Opptun; verbatimElevation: 320; decimalLatitude: 61.5000; decimalLongitude: 7.7203; samplingProtocol: T; eventDate: 10/08/2000; habitat: Moss, soil, herbaceous plants, at the base of *Salix caprea*; recordNumber: 1 L; recordedBy: MG, GM
- f. county: NOR-Sogn og Fjordane; locality: Kaupanger; verbatimElevation: 200; decimalLatitude: 61.1942; decimalLongitude: 7.2192; samplingProtocol: T; eventDate: 15/08/2000; habitat: Bark and rot from tree trunk; recordNumber: 1 AD; recordedBy: MG
- g. county: NOR-Sogn og Fjordane; locality: In the vicinity of Sogndal; verbatimElevation: 180; decimalLatitude: 61.2042; decimalLongitude: 7.1983; samplingProtocol: T; eventDate: 15/08/2000; habitat: Humic soil; recordNumber: 1 DN; recordedBy: MG
- h. county: NOR-Sogn og Fjordane; locality: Mo, in the vicinity of Moskog; verbatimElevation: 100; decimalLatitude: 61.4364; decimalLongitude: 5.9856; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, litter, soil; recordNumber: 1 DN; recordedBy: MG
- i. county: NOR-Sogn og Fjordane; locality: In the vicinity of Borgund; verbatimElevation: 400; decimalLatitude: 61.0533; decimalLongitude: 7.8125; samplingProtocol: T; eventDate: 07/06/2001; habitat: Soil, litter; recordNumber: 1 DN; recordedBy: MG
- j. county: NOR-Sogn og Fjordane; locality: Galdane; verbatimElevation: 300; decimalLatitude: 61.0611; decimalLongitude: 7.7278; samplingProtocol: T; eventDate: 07/06/2001; habitat: Soil, moss, herbaceous plants; recordNumber: 1 DN; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Lærdalsøyri; verbatimElevation: 100;
 decimalLatitude: 61.0972; decimalLongitude: 7.4911; samplingProtocol: T; eventDate: 07/06/2001; habitat: Soil, litter; recordNumber: 1 L; recordedBy: MG
- I. county: NOR-Sogn og Fjordane; locality: Balestrand; verbatimElevation: 100; decimalLatitude: 61.2081; decimalLongitude: 6.5281; samplingProtocol: T; eventDate: 31/07/2001; habitat: Soil at the base of decaying tree trunk, herbaceous plants; recordNumber: 2 AD, 1 L; recordedBy: MG, GM
- county: NOR-Sogn og Fjordane; locality: In the vicinity of Urnes; verbatimElevation: 50; decimalLatitude: 61.3072; decimalLongitude: 7.3422; samplingProtocol: T; eventDate: 19/08/2001; habitat: Moss, soil; recordNumber: 2 DN; recordedBy: MG, GM
- n. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 725; decimalLatitude: 61.3442; decimalLongitude: 6.4664; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, moss, herbaceous plants; recordNumber: 1 AD; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: In the vicinity of Bøyabreen;
 verbatimElevation: 175; decimalLatitude: 61.4817; decimalLongitude: 6.7406;
 samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, moss; recordNumber: 1 DN;
 recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Feigum; verbatimElevation: 25;
 decimalLatitude: 61.3839; decimalLongitude: 7.4239; samplingProtocol: T; eventDate: 20/07/2003; habitat: Moss by the creek; recordNumber: 1 AD, 1 L; recordedBy: MG
- q. county: NOR-Sogn og Fjordane; locality: Sognefjellet, in the vicinity of Turtagrø; verbatimElevation: 1 200; decimalLatitude: 61.5208; decimalLongitude: 7.8258; samplingProtocol: T; eventDate: 04/08/2003; habitat: Soil, moss, herbaceous plants; recordNumber: 3 AD; recordedBy: MG, MK

- r. county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 890; decimalLatitude: 60.9700; decimalLongitude: 6.5025; samplingProtocol: T; eventDate: 05/07/2004; habitat: Moss by the creek; recordNumber: 2 L; recordedBy: MG, AS
- s. county: NOR-Sogn og Fjordane; locality: In the vicinity of Opptun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate: 08/05/2005; habitat: Soil, litter, close to creek; recordNumber: 2 AD, 1 DN; recordedBy: MG, GM
- t. county: NOR-Sogn og Fjordane; locality: Between Opptun and Fortun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate: 15/11/2005; habitat: Soil; recordNumber: 1 AD; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Between Skjolden and Fortun;
 verbatimElevation: 25; decimalLatitude: 61.4878; decimalLongitude: 7.6594;
 samplingProtocol: T; eventDate: 25/11/2005; habitat: Moss, soil; recordNumber: 2 AD, 28 L; recordedBy: MG
- v. county: NOR-Sogn og Fjordane; locality: In the vicinity of Opptun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: U; eventDate: 01/07/2006; habitat: Soil, cow parsley, wood stitchwort, side of the road; recordNumber: 1 AD, 1 L; recordedBy: JŁ, MG
- w. county: NOR-Sogn og Fjordane; locality: Opptun; verbatimElevation: 400; decimalLatitude: 61.4997; decimalLongitude: 7.7247; samplingProtocol: T; eventDate: 07/08/2006; habitat: Moss and humic soil, by the creek; recordNumber: 1 L; recordedBy: JŁ, MG
- x. county: NOR-Vestfold; locality: Between Larvik and Kvelde; verbatimElevation: 25; decimalLatitude: 59.1525; decimalLongitude: 10.0244; samplingProtocol: T; eventDate: 03/10/2002; habitat: Soil, litter; recordNumber: 1 DN; recordedBy: MG
- y. county: NOR-Vestfold; locality: Rien, in the vicinity of Odberg; verbatimElevation: 50; decimalLatitude: 59.2708; decimalLongitude: 9.9300; samplingProtocol: T; eventDate: 03/10/2002; habitat: Soil, litter; recordNumber: 1 AD; recordedBy: MG
- z. county: SWE-Kalmar; locality: Öland; verbatimElevation: 40; decimalLatitude: 56.6624; decimalLongitude: 16.5896; samplingProtocol: S; eventDate: 12/08/2013; habitat: Detritus of leaves, sheep pasture with hazels near wetland; recordNumber: 2 PL; recordedBy: JS
- aa. county: SWE-Uppsala; locality: Biskops-Arnö (=TrapID 8); verbatimElevation: 10; decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate: 10/09/2004 17/12/2004 (=Coll.ID 1563); habitat: Northern beach, elm grove; recordNumber: 2 L; recordedBy: SMTP
- ab. county: SWE-Värmland; locality: Ransäter, Prästmyren; verbatimElevation: 115; decimalLatitude: 59.7883; decimalLongitude: 13.4348; samplingProtocol: S; eventDate: 04/06/2013; habitat: Arable land, grass, fine sediment, near pine forest and smaller forest stream; recordNumber: 1 PL; recordedBy: JS, MF, RH
- ac. county: SWE-Värmland; locality: Ransäter, Ransberg Herrgård; verbatimElevation: 110; decimalLatitude: 59.7903; decimalLongitude: 13.4160; samplingProtocol: U, S; eventDate: 05/06/2013; habitat: Moss, fern, mixed deciduous forest in stream ravine; recordNumber: 1 PL; recordedBy: JS, MF, RH
- ad. county: SWE-Västerbotten; locality: Near Stora Tjulträsk; verbatimElevation: 600; decimalLatitude: 65.9668; decimalLongitude: 16.0605; samplingProtocol: U; eventDate: 19/06/2013; habitat: Birch forest, slope; recordNumber: 4 PL; recordedBy: RH

- ae. county: SWE-Västerbotten; locality: Stora Tjulträsk; verbatimElevation: 560; decimalLatitude: 65.9645; decimalLongitude: 16.0479; samplingProtocol: P; eventDate: 21/06/2013; habitat: Damp area, birch, juniper, next to brook draining into lake; recordNumber: 1 PL; recordedBy: RH
- af. county: FIN-North Karelia; locality: Lieksa, Vuonisjärvi, Särkijoki; decimalLatitude: 63.2; decimalLongitude: 30.0; eventDate: 14/08/1997; habitat: Lakeshore bush; recordNumber: 1 PL; recordedBy: PTL
- ag. county: FIN-North Karelia; locality: Ilomantsi, Kuikkalampi, Särkkä; decimalLatitude: 62.8; decimalLongitude: 30.9; eventDate: 15/08/1997; habitat: Lakeshore meadow, litter of aspen; recordNumber: 2 PL; recordedBy: JM, PTL
- ah. county: FIN-North Karelia; locality: Tohmajärvi, Kemie, Kirkkoniemi,; decimalLatitude: 62.8; decimalLongitude: 30.9; eventDate: 15/08/1997; habitat: Deciduous forest with *Rhamnus* & alder; recordNumber: 6 PL; recordedBy: JM
- ai. county: FIN-Northern Ostrobothnia; locality: Pyhäjärvi, Vesikoski; eventDate: 05/07/1966; habitat: Rocky slope; recordNumber: 1 PL; recordedBy: PTL
- aj. county: FIN-Northern Ostrobothnia; locality: Kuusamo, Toranginjärvi; decimalLatitude: 66.2; decimalLongitude: 29.2; eventDate: 11/07/1966; habitat: Bog; recordNumber: 1 PL; recordedBy: PTL
- ak. county: FIN-Northern Ostrobothnia; locality: Kuusamo, Liikasenvaara Sirkkapuro,; decimalLatitude: 66.2; decimalLongitude: 29.2; eventDate: 18/06/1985; habitat: In moss and litter of brook valley; recordNumber: 1 fem; recordedBy: PTL
- al. county: FIN-Northern Ostrobothnia; locality: Lumijoki, Saarenperä; decimalLatitude: 64.9; decimalLongitude: 24.9; eventDate: 13/06/1987; habitat: Mixed forest, litter; recordNumber: 1 AD; recordedBy: PTL
- am. county: FIN-Ostrobothnia; locality: Oravainen, Bodholm; decimalLatitude: 63.2; decimalLongitude: 22.2; samplingProtocol: P; eventDate: 22/07/1972 07/10/1972; habitat: Shore meadow; recordNumber: 1 PL; recordedBy: PTL
- an. county: FIN-Ostrobothnia; locality: Uusikaarlepyy, Jepua, Lapuanjoki; decimalLatitude:
 63.4; decimalLongitude: 22.6; samplingProtocol: P; eventDate: 22/07/1972 07/10/1972; recordNumber: 1 PL; recordedBy: PTL
- ao. county: FIN-Southwest Finland; locality: Parainen, Sydmo, Ippos; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 13/06/1966; recordNumber: 1 AD, 1 DN; recordedBy: PTL
- ap. county: FIN-Southwest Finland; locality: Parainen, Sydmo, Ippos; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 24/05/1967; recordNumber: 1 PL; recordedBy: PTL
- aq. county: FIN-Southwest Finland; locality: Korppoo, Björkö; decimalLatitude: 59.9; decimalLongitude: 21.6; samplingProtocol: P; eventDate: 15/05/1968 16/07/1968; habitat: Maritime deciduous forest; recordNumber: 2 PL; recordedBy: PTL
- ar. county: FIN-Southwest Finland; locality: Korppoo, Jurmo; decimalLatitude: 59.8; decimalLongitude: 21.5; samplingProtocol: P; eventDate: 16/05/1968 17/07/1968; habitat: High juniper stand far from the seashore; recordNumber: 1 PL; recordedBy: PTL
- as. county: FIN-Southwest Finland; locality: Parainen, Kurckas; decimalLatitude: 60.2; decimalLongitude: 22.1; samplingProtocol: P; eventDate: 17/05/1968 05/07/1968; habitat: Meadow in spruce forest; recordNumber: 1 AD; recordedBy: PTL
- at. county: FIN-Southwest Finland; locality: Uusikaupunki, Lyökki, Ukonkari; decimalLatitude: 60.8; decimalLongitude: 21.1; eventDate: 25/06/1968; habitat: Small bog; recordNumber: 1 PL; recordedBy: PTL

- au. county: FIN-Southwest Finland; locality: Korppoo, Björkö; decimalLatitude: 59.9; decimalLongitude: 21.6; samplingProtocol: P; eventDate: 16/07/1968 20/10/1968; habitat: Base of rock; recordNumber: 1 PL; recordedBy: PTL
- av. county: FIN-Southwest Finland; locality: Parainen, Kopparö; samplingProtocol: P; eventDate: 15/08/1968 09/10/1968; habitat: Shore meadow; recordNumber: 2 PL; recordedBy: PTL
- aw. county: FIN-Southwest Finland; locality: Korppoo, Jurmo; decimalLatitude: 59.8; decimalLongitude: 21.5; samplingProtocol: P; eventDate: 29/06/1969 14/08/1969; habitat: Bog; recordNumber: 1 DN, 1 PL; recordedBy: PTL
- ax. county: FIN-Southwest Finland; locality: Korppoo, Lövskär, Hummelskär; decimalLatitude: 60.1; decimalLongitude: 21.2; eventDate: 11/07/1982; habitat: Drifted Fucus mixed with decaying Elymus; recordNumber: 1 AD; recordedBy: PTL
- ay. county: FIN-Southwest Finland; locality: Kaarina, Karpanmäki; decimalLatitude: 60.3; decimalLongitude: 22.3; samplingProtocol: P; eventDate: 09/05/1989 13/06/1989; recordNumber: 1 PL; recordedBy: SK
- az. county: FIN-Southwest Finland; locality: Kaarina, Karpanmäki; decimalLatitude: 60.3; decimalLongitude: 22.3; samplingProtocol: P; eventDate: 13/06/1989 15/07/1989; habitat: Oak forest; recordNumber: 1 PL; recordedBy: RN, VR
- ba. county: FIN-Southwest Finland; locality: Turku, Kylämäki, Vähä-Rasi; decimalLatitude: 60.4; decimalLongitude: 22.3; samplingProtocol: P; eventDate: 20/05/1990 28/08/1990; habitat: In cellar; recordNumber: 1 PL; recordedBy: RN, VR
- bb. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1; decimalLongitude: 21.1; samplingProtocol: P; eventDate: 29/05/1990 23/07/1990; habitat: Ash grove; recordNumber: 3 DN, 5 PL; recordedBy: KH, PTL
- bc. county: FIN-Southwest Finland; locality: Nauvo, Berghamn, Boskär; decimalLatitude: 59.9; decimalLongitude: 21.6; eventDate: 30/05/1990; habitat: *Alnus* grove, fungus; recordNumber: 1 AD, 6 PL; recordedBy: PTL
- bd. county: FIN-Southwest Finland; locality: Nauvo, Berghamn, Boskär; decimalLatitude: 59.9; decimalLongitude: 21.6; samplingProtocol: P; eventDate: 30/05/1990 24/07/1990; habitat: Hazel slope and on the cliff; recordNumber: 5 PL; recordedBy: KH, PTL
- be. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1; decimalLongitude: 21.1; samplingProtocol: P; eventDate: 23/07/1990 12/09/1990; habitat: Sandy dry meadow; recordNumber: 2 AD, 2 PL; recordedBy: KH, PTL, RN
- bf. county: FIN-Southwest Finland; locality: Nauvo, Berghamn, Boskär; decimalLatitude: 59.9; decimalLongitude: 21.6; samplingProtocol: P; eventDate: 24/07/1990 13/09/1990; habitat: Dry meadow; recordNumber: 1 PL; recordedBy: PTL
- bg. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1; decimalLongitude: 21.1; eventDate: 12/09/1990; habitat: Water avens in *Alnus* grove; recordNumber: 1 PL; recordedBy: PTL
- bh. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1; decimalLongitude: 21.1; samplingProtocol: P; eventDate: 29/05/1991 23/07/1991; habitat: Ash grove with *Fraxinus* sp.; recordNumber: 1 AD, 1 PL; recordedBy: KH, PTL
- bi. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1; decimalLongitude: 21.1; samplingProtocol: P; eventDate: 29/05/1992 23/07/1992; habitat: Sandy meadow; recordNumber: 1 DN, 2 PL; recordedBy: KH, PTL
- bj. county: FIN-Southwest Finland; locality: Nauvo, Sandö; decimalLatitude: 60.17; decimalLongitude: 22.09; eventDate: 09/09/1992; habitat: Pondside mire with *Calla*, *Comarum*, *Carex* spp.; recordNumber: 1 PL; recordedBy: PTL

- bk. county: FIN-Southwest Finland; locality: Houtskari, Jungfruskär; decimalLatitude: 60.1; decimalLongitude: 21.1; samplingProtocol: P; eventDate: 29/05/1993 23/07/1993; habitat: Cultivated meadow; recordNumber: 1 DN, 3 PL; recordedBy: KH, PTL
- bl. county: FIN-Southwest Finland; locality: Houtskari, Björkö; eventDate: 03/06/1994; habitat: Decaying fir; recordNumber: 1 PL; recordedBy: PTL
- bm. county: FIN-Southwest Finland; locality: Parainen, Lapplahti; decimalLatitude: 60.2; decimalLongitude: 21.9; eventDate: 06/08/1996; habitat: Moist deciduous forest; recordNumber: 2 PL, 1 L; recordedBy: PTL
- bn. county: FIN-Southwest Finland; locality: Nauvo, Krok Storra Gunkobb; decimalLatitude: 60.08; decimalLongitude: 21.71; eventDate: 21/07/1997; habitat: At the base of Cochlearia danica; recordNumber: 1 PL; recordedBy: PTL
- bo. county: FIN-Southwest Finland; locality: Sonkajärvi, Sukeva; decimalLatitude: 63.8; decimalLongitude: 27.4; eventDate: 12/08/1997; habitat: Grove (Salix sp., Alnus sp., Betula sp., grass) on the river shore; recordNumber: 1 DN; recordedBy: JM
- bp. county: FIN-Southwest Finland; locality: Nauvo, Sydänperä; decimalLatitude: 60.17; decimalLongitude: 21.72; eventDate: 01/09/1997; habitat: Hazel bush close to seashore; recordNumber: 1 PL; recordedBy: PTL
- bq. county: FIN-Southwest Finland; locality: Rymättylä, Alakylä, Isoluoto; decimalLatitude: 60.30; decimalLongitude: 21.97; eventDate: 04/09/1997; habitat: Litter of alder and decaying reed on seashore; recordNumber: 1 PL; recordedBy: SK
- br. county: FIN-Åland Islands; locality: Åland, Mariehamn, Svinö; decimalLatitude: 60.1; decimalLongitude: 19.8; samplingProtocol: U; eventDate: 17/08/1997; habitat: Seashore and margin of deciduous forest; recordNumber: 1 PL; recordedBy: JM

Distribution: Norway (Thor 1900a, Mąkol and Gulvik 2002), Sweden (Willmann 1943) and new for Finland.

Notes: This taxon may represent more than one species (Wohltmann et al. 1999). *Trombidium expalpe* Hermann, 1804 is a junior synonym (Oudemans 1929).

Superfamily Erythraeoidea

Family Erythraeidae Robineau-Desvoidy, 1828

Subfamily Abrolophinae Witte, 1995

Abrolophus artemisiae (Schrank, 1803) [PL]

• GBIF http://www.gbif.org/species/4539829

- a. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/09/2002; habitat: Soil, undergrowth; recordNumber: 11 º, 11 ơ, 1 AD, 3 DN; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 1 ?, 9 DN; recordedBy: MG

- c. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 2 3, 2 DN; recordedBy: MG
- d. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 20/09/2003; habitat: Soil, undergrowth; recordNumber: 4 *; recordedBy: MG
- e. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 28/09/2003; habitat: Soil, undergrowth; recordNumber: 2 9 4 4; recordedBy: MG
- f. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4719; decimalLongitude: 7.5461; samplingProtocol: T; eventDate: 05/11/2005; habitat: Sand and clayey soil, moss; recordNumber: 2 º 2 º , 2 DN; recordedBy: MG

Distribution: Finland (Gabryś et al. 2009) and new for Norway.

Abrolophus bohdani (Haitlinger, 2003) [L]

Materials

- a. county: NOR-Hordaland; locality: Dale; verbatimElevation: 50; decimalLatitude:
 60.5881; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 25/06/2005; habitat: Litter, soil, humus; recordNumber: 1 L; recordedBy: MG
- county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 400;
 decimalLatitude: 61.5600; decimalLongitude: 7.9628; samplingProtocol: T; eventDate: 17/05/2003; habitat: Moss and lichens on rocks; recordNumber: 3 L; recordedBy: MG, SS
- c. county: NOR-Sogn og Fjordane; locality: Rørvik; verbatimElevation: 500; decimalLatitude: 61.4047; decimalLongitude: 6.2178; samplingProtocol: T; eventDate: 04/07/2002; habitat: Moss, lichens and humus on rocks; recordNumber: 1 L; recordedBy: MG, PS, SS

Distribution: New for Norway.

Abrolophus densipapillus (Schweizer, 1951) [PL]

GBIF https://www.gbif.org/species/4539812

Distribution: Sweden (Sellnick 1958).

Notes: Only single record in literature (Sellnick 1958) and no recent occurrences since then. Identification questionable.

Abrolophus longicollis (Oudemans, 1910) [L]

GBIF https://www.gbif.org/species/4539779

Material

a. county: NOR-Sogn og Fjordane; locality: Atløy; verbatimElevation: 100;
 decimalLatitude: 61.3472; decimalLongitude: 4.9589; samplingProtocol: T; eventDate:

22/05/2001; habitat: Grass tussocks on stony beach, humic soil, herbaceous plants, moss; recordNumber: 21 L; recordedBy: JM

Distribution: Sweden (Sellnick 1958) and new for Norway.

Abrolophus miniatus (Hermann, 1804) [PL]

GBIF http://www.gbif.org/species/4539799

- a. county: NOR-Buskerud; locality: Lerberg, in the vicinity of Hokksund;
 verbatimElevation: 100; decimalLatitude: 59.7772; decimalLongitude: 9.9244;
 samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter; recordNumber: 1 *;
 recordedBy: MG
- b. county: NOR-Hordaland; locality: Evanger; verbatimElevation: 50; decimalLatitude: 60.6472; decimalLongitude: 6.1356; samplingProtocol: T; eventDate: 05/07/2004; habitat: Arable area covered with weeds, grass, humus with litter and moss; recordNumber: 1 °; recordedBy: MG, AS
- c. county: NOR-Hordaland; locality: In the vicinity of Bulken; verbatimElevation: 75; decimalLatitude: 60.6314; decimalLongitude: 6.2744; samplingProtocol: T; eventDate: 25/06/2005; habitat: Moss, decomposed bark, humus, at the base of elm tree; recordNumber: 1 DN; recordedBy: MG
- d. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 400;
 decimalLatitude: 61.5600; decimalLongitude: 7.9628; samplingProtocol: T; eventDate: 17/05/2003; habitat: Lichens on rocks; recordNumber: 1 DN; recordedBy: MG, SS
- e. county: NOR-Oppland; locality: In the vicinity of Bøvertun; verbatimElevation: 940; decimalLatitude: 61.6453; decimalLongitude: 8.1017; samplingProtocol: T; eventDate: 17/05/2003; habitat: Pasture at mountain wall, humus with herbaceous plants; recordNumber: 2 DN; recordedBy: MG, SS
- f. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 300;
 decimalLatitude: 61.3314; decimalLongitude: 7.2144; samplingProtocol: T; eventDate: 25/05/2001; habitat: Soil, humus, undergrowth; recordNumber: 1 DN; recordedBy: MG, JM
- g. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4903; decimalLongitude: 7.5736; samplingProtocol: T; eventDate: 08/05/2002; habitat: Rock debris, litter and humus; recordNumber: 1 DN; recordedBy: MG
- h. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 25; decimalLatitude: 61.4950; decimalLongitude: 7.5867; samplingProtocol: T; eventDate: 23/03/2005; habitat: Humus at decomposed tree trunk; recordNumber: 2 DN; recordedBy: MG
- i. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4972; decimalLongitude: 7.6108; samplingProtocol: U; eventDate: 06/07/2006; habitat: On rocks, under moss; recordNumber: 1 ?; recordedBy: JŁ
- j. county: SWE-Stockholm; locality: Stockholm, Lappkärret; verbatimElevation: 20; decimalLatitude: 59.3678; decimalLongitude: 18.0694; samplingProtocol: S; eventDate: 21/08/2013, 23/08/2013; habitat: On small hill near lake, oak, maple, aspen, litter; recordNumber: 4 PL; recordedBy: JS

Distribution: Sweden (Trägårdh 1910, Sellnick 1958), Finland (Karppinen 1958, Gabryś et al. 2009) and new for Norway.

Abrolophus norvegicus (Thor, 1900) [PL, L]

GBIF http://www.gbif.org/species/4539827

Distribution: Norway (Thor 1900a, Haitlinger 2000, Mąkol and Gulvik 2002), Sweden (Sellnick 1958) and Finland (Haitlinger 2000, Gabryś et al. 2009).

Notes: *Hauptmannia brevicollis* Oudemans, 1910 is a junior synonym (Łaydanowicz and Mąkol 2008).

Abrolophus nymindegabicus Haitlinger, 2008 [L]

Distribution: Sweden (Haitlinger 2008).

Abrolophus quisquiliarus (Hermann, 1804) [PL, L]

GBIF https://www.gbif.org/species/4539810

- a. county: NOR-Buskerud; locality: Noresund; verbatimElevation: 150; decimalLatitude: 60.1800; decimalLongitude: 9.6211; samplingProtocol: T; eventDate: 06/06/2001; habitat: Litter; recordNumber: 1 DN; recordedBy: MG
- b. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5494; decimalLongitude: 6.4789; samplingProtocol: T; eventDate: 10/11/2000; habitat: Rot from decaying elm tree trunk; recordNumber: 1 &; recordedBy: MG, JD, SSM
- c. county: NOR-Sogn og Fjordane; locality: Grinde; verbatimElevation: 120; decimalLatitude: 61.1847; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 13/11/2000; habitat: Rot from decaying elm trunk; recordNumber: 1 &; recordedBy: MG
- d. county: NOR-Sogn og Fjordane; locality: Atløy; verbatimElevation: 100; decimalLatitude: 61.3472; decimalLongitude: 4.9589; samplingProtocol: T; eventDate: 22/05/2001; habitat: Grass tussocks on stony beach, humic soil with herbaceous plants and moss; recordNumber: 1 DN; recordedBy: JM
- e. county: NOR-Sogn og Fjordane; locality: Urnes; verbatimElevation: 100; decimalLatitude: 61.2978; decimalLongitude: 7.3242; samplingProtocol: T; eventDate: 19/08/2001; habitat: Soil; recordNumber: 1 DN; recordedBy: MG, GM
- f. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: On tree trunk of elm; recordNumber: 1 DN; recordedBy: MG
- g. county: NOR-Sogn og Fjordane; locality: Grinde; verbatimElevation: 120; decimalLatitude: 61.1847; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 16/10/2001; habitat: Soil and litter, at the base of tree trunk; recordNumber: 1 DN; recordedBy: MG

- h. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 18/10/2001; habitat: Soil, undergrowth; recordNumber: 1 \(\frac{9}{3} \); recordedBy: MG
- i. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/09/2002; habitat: Soil, undergrowth; recordNumber: 3 ?; recordedBy: MG
- j. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG
- k. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 2 ?; recordedBy: MG
- I. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 20/09/2003; habitat: Soil, undergrowth; recordNumber: 1 ?; recordedBy: MG

Distribution: Sweden (Andersén 1863, Sellnick 1958), Finland (Gabryś et al. 2009) and new for Norway.

Abrolophus rhopalicus (C.L. Koch, 1837) [PL]

GBIF https://www.gbif.org/species/4539839

- a. county: NOR-Buskerud; locality: Hvila; verbatimElevation: 180; decimalLatitude: 59.7553; decimalLongitude: 9.5861; samplingProtocol: T; eventDate: 03/10/2002; habitat: Moss, soil, humus; recordNumber: 1 &; recordedBy: MG
- county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 400;
 decimalLatitude: 61.5647; decimalLongitude: 7.9947; samplingProtocol: T; eventDate: 22/06/2000; habitat: Thick layer of very moist humus with sand, moss on rocks, clayey-humic soil; recordNumber: 2 *, 1 DN; recordedBy: MG, AK
- c. county: NOR-Sogn og Fjordane; locality: Hov, in the vicinity of Vik; verbatimElevation: 400; decimalLatitude: 61.3231; decimalLongitude: 6.2603; samplingProtocol: T; eventDate: 04/07/2002; habitat: Litter, moss, humus; recordNumber: 4 DN; recordedBy: MG, PS, SS
- d. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 500; decimalLatitude: 61.3392; decimalLongitude: 6.3536; samplingProtocol: T; eventDate: 04/07/2002; habitat: Forest edge, bark and moss from the upper part of moraine; recordNumber: 1 °; recordedBy: MG, PS, SS
- e. county: NOR-Sogn og Fjordane; locality: Rørvik; verbatimElevation: 500; decimalLatitude: 61.4047; decimalLongitude: 6.2178; samplingProtocol: T; eventDate: 04/07/2002; habitat: Litter, moss, lichens, humus; recordNumber: 1 *, 3 DN; recordedBy: MG, PS, SS
- f. county: NOR-Sogn og Fjordane; locality: Sognefjellet, in the vicinity of Turtagrø; verbatimElevation: 1 200; decimalLatitude: 61.5208; decimalLongitude: 7.8258; samplingProtocol: T; eventDate: 04/08/2003; habitat: Moss, humus, vegetation, peat substratum; recordNumber: 1 ?, 5 DN; recordedBy: MG, MK

Distribution: Sweden (Andersén 1863) and new for Norway.

Abrolophus rubipes (Berlese & Trouessart, 1889) [PL]

GBIF http://www.gbif.org/species/4539814

Distribution: Sweden (Sellnick 1949).

Notes: No recent occurrences since the record of Sellnick (1949). Identification questionable.

Abrolophus wratislaviensis (Haitlinger, 1986) [L]

GBIF https://www.gbif.org/species/4539775

Distribution: Norway (Haitlinger 2000) and Sweden (Haitlinger 2008).

Abrolophus sp.

Materials

- county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster;
 verbatimElevation: 100; decimalLatitude: 61.4642; decimalLongitude: 7.5303;
 samplingProtocol: T; eventDate: 14/03/2001; habitat: Moss, soil; recordNumber: 27 L;
 recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Råum, in the vicinity of Gaupne;
 verbatimElevation: 100; decimalLatitude: 61.3894; decimalLongitude: 7.3406;
 samplingProtocol: T; eventDate: 11/04/2001; habitat: Moss and rot from decaying birch trunk; recordNumber: 7 L; recordedBy: MG
- c. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4994; decimalLongitude: 7.6097; samplingProtocol: T; eventDate: 09/12/2006; habitat: Bark, moss, lichens on decaying birch stumps, decaying raspberry shrubs; recordNumber: 18 L; recordedBy: MG, MW

Notes: Potential new species for science from Norway (or unknown instar of species already known from active postlarval forms).

Subfamily Balaustiinae Grandjean, 1947

Balaustium murorum (Hermann, 1804) [PL, L]

GBIF http://www.gbif.org/species/4336780

Distribution: Sweden (Andersén 1863, Sellnick 1949) and Finland (Karppinen 1958, Gabryś et al. 2009).

Notes: Rhyncholophus crocatus C.L. Koch, 1837 is a junior synonym (Gabryś 2016).

Balaustium nikae Haitlinger, 1996 [L]

GBIF http://www.gbif.org/species/4539958

Distribution: Sweden (Haitlinger 2008).

Balaustium sp.

Material

a. county: SWE-Södermanland; locality: Tullgarns näs, Rävsalaviken (=TrapID 30);
 verbatimElevation: 15; decimalLatitude: 58.9552; decimalLongitude: 17.6075;
 samplingProtocol: M; eventDate: 03/07/2004 - 19/08/2004 (=Coll.ID 1055); habitat:
 Mixed forest next to pasture; recordNumber: 2 AD; recordedBy: SMTP

Notes: Potential new species for science from Sweden. Morphologically near *Balaustium araneoides* (Berlese, 1910).

Subfamily Callidosomatinae Southcott, 1957

Charletonia cardinalis (C.L. Koch, 1837) [PL, L]

GBIF http://www.gbif.org/species/4539871

Materials

- a. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U; eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder covered with moss; recordNumber: 1 º, 2 ॰; recordedBy: JŁ
- b. county: SWE-Jönköping; locality: Shore of Lake Landsjön; verbatimElevation: 150; decimalLatitude: 57.8744; decimalLongitude: 14.2991; samplingProtocol: U, S; eventDate: 12/06/2013; habitat: Shore with mixed deciduous trees, *Aegopodium*, common reed, moss, bare soil; recordNumber: 1 DN; recordedBy: JS, MF, RH
- c. county: SWE-Kalmar; locality: Öland (=TrapID 22); verbatimElevation: 40; decimalLatitude: 56.6167; decimalLongitude: 16.5076; samplingProtocol: M; eventDate: 20/05/2005 01/06/2005 (=Coll.ID 1312); habitat: Meadow with bushes; recordNumber: 1 L; recordedBy: SMTP
- d. county: SWE-Stockholm; locality: Norrtälje, St. Dylanda; verbatimElevation: 35; decimalLatitude: 59.7078; decimalLongitude: 18.2332; samplingProtocol: U; eventDate: 18/06/2011; habitat: Exposed soil in patches, grass, litter, edge of forest and arable area; recordNumber: 1 L; recordedBy: JS

Distribution: Norway (Mąkol and Gulvik 2002), Sweden (Andersén 1863, Southcott 1991) and Finland (Karppinen 1958 [as *Sphaerolophus globiger* Berlese, 1885, misidentification verified in Gabryś et al. 2009], Haitlinger 2000, Gabryś et al. 2009).

Notes: Rhyncholophus principalis C. L. Koch, 1837 is a junior synonym (Gabryś 2016).

Charletonia globigera (Berlese, 1885) [PL]

GBIF https://www.gbif.org/species/4539866

Distribution: Norway (Thor 1900a) and Sweden (Sellnick 1958).

Subfamily Erythraeinae Robineau-Desvoidy, 1828

Curteria episcopalis (C.L. Koch, 1837) [PL, L]

GBIF https://www.gbif.org/species/4539985

Material

county: SWE-Stockholm; locality: Norrtälje, Håtö; verbatimElevation: 25;
 decimalLatitude: 59.7100; decimalLongitude: 18.8904; samplingProtocol: U;
 eventDate: 24/06/2011; habitat: Open field, weekend cottage, rocks; recordNumber: 1
 AD; recordedBy: JS

Distribution: Sweden (Andersén 1863, Stålstedt et al. 2016) and Finland (Gabryś et al. 2009).

Erythraeus adpendiculatus (Schrank, 1781) [PL]

GBIF https://www.gbif.org/species/9193106

Material

a. county: SWE-Västerbotten; locality: Kulbäcksliden experimental forest (=TrapID 57); verbatimElevation: 295; decimalLatitude: 64.1545; decimalLongitude: 19.5932; samplingProtocol: M; eventDate: 02/12/2003 - 18/06/2004 (=Coll.ID 751); habitat: 15 yr old spruce plantation, blueberry spruce forest; recordNumber: 4 L; recordedBy: SMTP

Distribution: Finland (Karppinen 1958, Gabryś et al. 2009) and new for Sweden.

Erythraeus cinereus (Dugès, 1834) [PL, L]

GBIF http://www.gbif.org/species/6919397

- a. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 430;
 decimalLatitude: 61.5600; decimalLongitude: 7.9681; samplingProtocol: T; eventDate:
 02/09/2000; habitat: Soil, moss, vegetation; recordNumber: 2 DN; recordedBy: MG,
 GM
- county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 300;
 decimalLatitude: 61.5600; decimalLongitude: 8.0014; samplingProtocol: T; eventDate: 20/08/2006; habitat: Moss, litter; recordNumber: 3 DN; recordedBy: MG, JŁ

- c. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of jøsnes; verbatimElevation: 250; decimalLatitude: 61.5419; decimalLongitude: 6.5378; samplingProtocol: T; eventDate: 11/10/2000; habitat: Rot from decaying trunk; recordNumber: 1 &; recordedBy: MG
- d. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: Moss from decaying trunk; recordNumber: 1 DN; recordedBy: MG
- e. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/09/2002; habitat: Soil, undergrowth; recordNumber: 48 DN; recordedBy: MG
- f. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG
- g. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 20/09/2003; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG
- h. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 28/09/2003; habitat: Soil, undergrowth; recordNumber: 2 DN; recordedBy: MG
- i. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4719; decimalLongitude: 7.5461; samplingProtocol: U; eventDate: 01/07/2006; habitat: Forest edge with numerous anthills, moss covered rock debris; recordNumber: 1 &; recordedBy: JŁ, MG
- j. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U, C; eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder covered with moss; recordNumber: 1 ?, 1 DN; recordedBy: JŁ
- k. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4972; decimalLongitude: 7.6108; samplingProtocol: C (collecetd as larva); eventDate: 06/07/2006; habitat: On rocks, under moss; recordNumber: 1 DN; recordedBy: JŁ
- I. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 25; decimalLatitude: 61.5000; decimalLongitude: 7.6017; samplingProtocol: U; eventDate: 04/09/2007; habitat: Slope near road and birch forest, relatively moist grass, moss, soil; recordNumber: 6 &; recordedBy: JŁ
- m. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 17/09/2007; habitat: Slope near road, very moist grass and moss; recordNumber: 3 DN; recordedBy: JŁ
- n. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 05/10/2007; habitat: Slope near road, very moist grass and moss; recordNumber: 1 DN; recordedBy: JŁ
- o. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 25; decimalLatitude: 61.5000; decimalLongitude: 7.6017; samplingProtocol: U; eventDate: 05/10/2007; habitat: Slope near road and birch forest, relatively moist grass, moss, soil; recordNumber: 5 º, 15 º, 8 DN; recordedBy: JŁ
- p. county: SWE-Stockholm; locality: Stockholm, Lappkärret; verbatimElevation: 20; decimalLatitude: 59.3678; decimalLongitude: 18.0694; samplingProtocol: S;

eventDate: 21/08/2013, 23/08/2013; habitat: On small hill near lake, oak, maple, aspen, litter; recordNumber: 50 AD, 10 DN; recordedBy: JS

Distribution: Sweden (Haitlinger 2008, Stålstedt et al. 2016), Finland (Gabryś et al. 2009) and new for Norway.

Notes: Erythraeus jowitae Haitlinger, 1987 is a junior synonym (Stålstedt et al. 2016).

Erythraeus kresnensis Beron, 1982 [L]

GBIF http://www.gbif.org/species/6919386

Materials

- a. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 8 L; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 1 L; recordedBy: MG

Distribution: New for Norway.

Erythraeus monikae Haitlinger, 1987 [L]

GBIF http://www.gbif.org/species/6919400

Material

a. county: SWE-Stockholm; locality: Svartlöga, Matkrok (=TrapID 26); verbatimElevation: 10; decimalLatitude: 59.5695; decimalLongitude: 19.05299; samplingProtocol: M; eventDate: 15/07/2004 - 28/07/2004 (=Coll.ID 1681); habitat: Maritime deciduous wood, small island; recordNumber: 1 L; recordedBy: SMTP

Distribution: Finland (Haitlinger 2000) and new for Sweden.

Erythraeus nivalis (Heer, 1845) [PL]

GBIF https://www.gbif.org/species/101078909

Distribution: Sweden (Trägårdh 1902).

Notes: Rhyncholophus intermedius Trägårdh, 1902 is a junior synonym (Gabryś 2016).

Erythraeus opilionoides (C.L. Koch, 1837) [PL]

GBIF http://www.gbif.org/species/6919409

Distribution: Norway (Thor 1900a).

Notes: Only single record in literature (Thor 1900a) and no recent occurrences since then. Identification questionable.

Erythraeus phalangoides (De Geer, 1778) [PL, L]

GBIF http://www.gbif.org/species/8382687

Material

a. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U; eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder and roots covered with moss; recordNumber: 2 &; recordedBy: JŁ

Distribution: Norway (Oudemans 1927), Sweden (de Geer 1778, Andersén 1863, Trägårdh 1904, Sellnick 1949) and Finland (Karppinen 1958, Gabryś et al. 2009).

Notes: Rhyncholophus arenicola Andersén, 1863 and Bochartia adrastus Southcott, 1961 are junior synonyms (Gabryś 2016, Stålstedt et al. 2016).

Erythraeus regalis (C.L. Koch, 1837) [PL, L]

GBIF http://www.gbif.org/species/6919388

- a. county: NOR-Sogn og Fjordane; locality: Nystølen; verbatimElevation: 700;
 decimalLatitude: 61.3436; decimalLongitude: 6.4564; samplingProtocol: T; eventDate: 04/07/2002; habitat: Litter, humus, moss; recordNumber: 1 L; recordedBy: MG, PS, SS
- county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 200 L; recordedBy: MG
- c. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 2 L; recordedBy: MG
- d. county: NOR-Sogn og Fjordane; locality: Between Luster and Skjolden; verbatimElevation: 100; decimalLatitude: 61.4811; decimalLongitude: 7.5639; samplingProtocol: C; eventDate: 01/07/2006; habitat: Tussock grass and polypody meadow, close to hazel forest, bushes by the stream; recordNumber: 1 L; recordedBy: MG, JŁ
- e. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: C; eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder covered with moss; recordNumber: 2 L; recordedBy: JŁ
- f. county: SWE-Stockholm; locality: Svartlöga, Matkrok (=TrapID 26); verbatimElevation: 11; decimalLatitude: 59.5695; decimalLongitude: 19.05300; samplingProtocol: M; eventDate: 15/07/2004 28/07/2004 (=Coll.ID 1681); habitat: Maritime deciduous wood, small island; recordNumber: 1 L; recordedBy: SMTP

Stålstedt J et al

Distribution: Norway (Thor 1900a, Haitlinger 2000, Mąkol and Gulvik 2002), Sweden (Sellnick 1958, Sömermaa 1973, Stålstedt et al. 2016) and Finland (Karppinen 1958, Gabryś et al. 2009).

Notes: *Bochartia kuyperi* Oudemans, 1910 and *Erythraeus gertrudae* Haitlinger, 1987 are junior synonyms (Stålstedt et al. 2016).

Erythraeus rupestris (L., 1758) [PL]

GBIF https://www.gbif.org/species/8807161

Distribution: Sweden (Linnaeus 1758, Andersén 1863) and Finland (Karppinen 1958, Gabryś et al. 2009).

Notes: Rhyncholophus imperialis C. L. Koch, 1837 is a junior synonym (Oudemans 1937).

Kamertonia polonica Gabryś, 2000 [PL]

GBIF http://www.gbif.org/species/4539974

Distribution: Finland (Gabryś et al. 2009, Roland and Gabryś 2013).

Subfamily Leptinae Billberg, 1820

Leptus coccineus (Scopoli, 1763) [L]

GBIF http://www.gbif.org/species/6919456

Distribution: Norway (Oudemans 1927).

Notes: Only single record in literature (Oudemans 1927) and no recent occurrences since then. Identification questionable.

Leptus laplandicus Southcott, 1992 [L]

GBIF http://www.gbif.org/species/6919562

Distribution: Sweden (Southcott 1992).

Notes: Species described by Southcott (1992) from material collected by I. Trägårdh in 1907, in Sarek, Swedish Lappland.

Leptus longipilis (Berlese, 1910) [PL]

GBIF http://www.gbif.org/species/6919538

Distribution: Finland (Gabryś et al. 2009).

Leptus mariae Haitlinger, 1987 [L]

GBIF http://www.gbif.org/species/6919566

Materials

- a. county: SWE-Skåne; locality: Stenshuvud national park, Krivarboden (=TrapID 39); verbatimElevation: 30; decimalLatitude: 55.6603; decimalLongitude: 14.2755; samplingProtocol: M; eventDate: 25/07/2003 08/08/2003 (=Coll.ID 603); habitat: Broad-leaved deciduous forest; recordNumber: 1 L; recordedBy: SMTP
- county: SWE-Södermanland; locality: Tullgarns näs, Rävsalaviken (=TrapID 30);
 verbatimElevation: 15; decimalLatitude: 58.9552; decimalLongitude: 17.6075;
 samplingProtocol: M; eventDate: 03/07/2004 19/08/2004 (=Coll.ID 1055); habitat:
 Mixed forest next to pasture; recordNumber: 5 L; recordedBy: SMTP
- c. county: SWE-Värmland; locality: Ransäter, Rudstorp (=TrapID 1002); verbatimElevation: 85; decimalLatitude: 59.7730; decimalLongitude: 13.4737; samplingProtocol: M; eventDate: 07/07/2005 - 15/07/2005 (=Coll.ID 1375); habitat: Sandy railway embankment through pasture-land; recordNumber: 1 L; recordedBy: SMTP

Distribution: Norway (Haitlinger 2000) and Sweden (Haitlinger 2008).

Leptus molochinus (C. L. Koch, 1837) [PL, L]

GBIF https://www.gbif.org/species/8912762

- a. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 43 L; recordedBy: MG
- b. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 1 ?, 4 L; recordedBy: MG
- c. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 100; decimalLatitude: 61.4964; decimalLongitude: 7.6106; samplingProtocol: T; eventDate: 28/04/2004; habitat: Meadow with concrete walls, herbaceous plants, moss on stony bedrock; recordNumber: 1 DN; recordedBy: MG, MW
- d. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U (4 L), C (2 L); eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder covered with moss; recordNumber: 6 L; recordedBy: JŁ
- e. county: SWE-Stockholm; locality: Stockholm, Lappkärret; verbatimElevation: 20; decimalLatitude: 59.3678; decimalLongitude: 18.0694; samplingProtocol: S; eventDate: 21/08/2013, 23/08/2013; habitat: On small hill near lake, oak, maple, aspen, litter; recordNumber: 4 PL; recordedBy: JS
- f. county: SWE-Södermanland; locality: Trosa, Hunga Södergård (=TrapID 12); verbatimElevation: 20; decimalLatitude: 58.9207; decimalLongitude: 17.5212;

- samplingProtocol: M; eventDate: 20/07/2003 02/08/2003 (=Coll.ID 175); habitat: Tall grass close to pile of manure behind stable; recordNumber: 2 L; recordedBy: SMTP
- g. county: SWE-Södermanland; locality: Trosa, Hunga Södergård (=TrapID 12); verbatimElevation: 20; decimalLatitude: 58.9207; decimalLongitude: 17.5212; samplingProtocol: M; eventDate: 25/08/2003 19/09/2003 (=Coll.ID 178); habitat: Tall grass close to pile of manure behind stable; recordNumber: 1 L; recordedBy: SMTP
- h. county: SWE-Södermanland; locality: Tullgarns näs, Rävsalaviken (=TrapID 30); verbatimElevation: 15; decimalLatitude: 58.9552; decimalLongitude: 17.6075; samplingProtocol: M; eventDate: 03/07/2004 19/08/2004 (=Coll.ID 1055); habitat: Mixed forest next to pasture; recordNumber: 1 L; recordedBy: SMTP
- i. county: SWE-Västerbotten; locality: Kulbäcksängarna (=TrapID 54); verbatimElevation: 155; decimalLatitude: 64.1902; decimalLongitude: 19.6057; samplingProtocol: M; eventDate: 05/08/2004 20/08/2004 (=Coll.ID 1254); habitat: Birch wood on fine alluvial sediments; recordNumber: 1 L; recordedBy: SMTP

Distribution: Norway (Mąkol and Gulvik 2002), Sweden (Andersén 1863, Oudemans 1912, Sellnick 1958) and Finland (Karppinen 1958, Gabryś et al. 2009).

Notes: *Erythraeus ignotus* Oudemans, 1903 is a junior synonym (Łaydanowicz and Mąkol 2008).

Leptus phalangii (De Geer, 1778) [PL, L]

GBIF https://www.gbif.org/species/9042332

- a. county: NOR-Akershus; locality: Østmarka; verbatimElevation: 250; decimalLatitude: 59.8425; decimalLongitude: 11.0338; samplingProtocol: T; eventDate: 07/06/2002; habitat: Litter; recordNumber: 2 9; recordedBy: MG
- county: NOR-Buskerud; locality: Kløftefoss; verbatimElevation: 150; decimalLatitude: 60.0886; decimalLongitude: 9.8336; samplingProtocol: T; eventDate: 26/08/2000; habitat: Litter; recordNumber: 1 DN; recordedBy: MG
- c. county: NOR-Buskerud; locality: In the vicinity of Bromma; verbatimElevation: 150;
 decimalLatitude: 60.4883; decimalLongitude: 9.1839; samplingProtocol: T; eventDate:
 07/06/2001; habitat: Humus, litter, undergrowth; recordNumber: 1 DN; recordedBy: MG
- d. county: NOR-Hordaland; locality: Between Bulken and Rekve; verbatimElevation: 60; decimalLatitude: 60.6275; decimalLongitude: 6.2961; samplingProtocol: T; eventDate: 24/06/2001; habitat: Moss and rot from decaying birch tree trunk; recordNumber: 1 DN; recordedBy: MG
- e. county: NOR-Hordaland; locality: Sandviki; verbatimElevation: 50; decimalLatitude: 60.4567; decimalLongitude: 5.6786; samplingProtocol: T; eventDate: 05/07/2004; habitat: Moss, humus; recordNumber: 1 *; recordedBy: MG
- f. county: NOR-Hordaland; locality: Dale; verbatimElevation: 50; decimalLatitude: 60.5881; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 05/07/2004; habitat: Litter and humus on bedrock at the foot of mountains; recordNumber: 1 DN; recordedBy: MG
- g. county: NOR-Sogn og Fjordane; locality: Kaupanger; verbatimElevation: 200; decimalLatitude: 61.1942; decimalLongitude: 7.2192; samplingProtocol: T; eventDate:

- 15/08/2000; habitat: Rot from decaying tree trunk; recordNumber: 1 DN; recordedBy: MG
- h. county: NOR-Sogn og Fjordane; locality: In the vicinity of Bøyabreen; verbatimElevation: 150; decimalLatitude: 61.4811; decimalLongitude: 6.7419; samplingProtocol: T; eventDate: 11/10/2000; habitat: Litter; recordNumber: 1 DN; recordedBy: MG
- i. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5419; decimalLongitude: 6.5378; samplingProtocol: T; eventDate: 11/10/2000; habitat: Rot from the inside of decaying elm tree; recordNumber: 1 DN; recordedBy: MG
- j. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5447; decimalLongitude: 6.5106; samplingProtocol: T; eventDate: 11/10/2000; habitat: Litter; recordNumber: 4 DN; recordedBy: MG
- k. county: NOR-Sogn og Fjordane; locality: Ytredalen, in the vicinity of Vadheim; verbatimElevation: 100; decimalLatitude: 61.2336; decimalLongitude: 5.8225; samplingProtocol: T; eventDate: 31/07/2001; habitat: Litter; recordNumber: 1 DN; recordedBy: MG, GM
- I. county: NOR-Sogn og Fjordane; locality: Kroken; verbatimElevation: 50; decimalLatitude: 61.3403; decimalLongitude: 7.3967; samplingProtocol: T; eventDate: 19/08/2001; habitat: Soil at the base of elm trunk; recordNumber: 1 DN; recordedBy: MG, GM
- m. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 725; decimalLatitude: 61.3442; decimalLongitude: 6.4664; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, moss, undergrowth; recordNumber: 1 ?; recordedBy: MG
- n. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 725; decimalLatitude: 61.3442; decimalLongitude: 6.4664; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, moss, undergrowth; recordNumber: 1 ?; recordedBy: MG
- o. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: Litter; recordNumber: 1 °; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 980;
 decimalLatitude: 60.9964; decimalLongitude: 6.5461; samplingProtocol: T; eventDate: 23/09/2001; habitat: Litter; recordNumber: 3 DN; recordedBy: MG
- q. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4903; decimalLongitude: 7.5736; samplingProtocol: U; eventDate: 08/05/2002; habitat: Litter; recordNumber: 1 ?; recordedBy: MG
- r. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4733; decimalLongitude: 7.2547; samplingProtocol: T; eventDate: 15/05/2005; habitat: Rot from the inside of decaying alder tree; recordNumber: 1 DN; recordedBy: MG, GM
- s. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4972; decimalLongitude: 7.6108; samplingProtocol: U; eventDate: 10/07/2006; habitat: Slope near road, on rocks, under moss; recordNumber: 4 L; recordedBy: JŁ

- county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; t. decimalLatitude: 61.4914; decimalLongitude: 7.6050; samplingProtocol: T; eventDate: 06/09/2006; habitat: Moss, soil, humus; recordNumber: 1 DN; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: In the vicinity of Skei; verbatimElevation: 200; u. decimalLatitude: 61.6483; decimalLongitude: 6.5200; samplingProtocol: T; eventDate: 22/09/2006; habitat: Soil beneath rock; recordNumber: 2 DN; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Austerdalsbreen; verbatimElevation: 375; V. decimalLatitude: 61.5758; decimalLongitude: 6.9886; samplingProtocol: U (L); eventDate: 03/10/2007; habitat: Postglacial valley, on stones; recordNumber: 1 DN; recordedBy: AB
- W. county: NOR-Vestfold; locality: Tanum; verbatimElevation: 100; decimalLatitude: 59.0250; decimalLongitude: 9.9722; samplingProtocol: T; eventDate: 25/08/2000; habitat: Litter; recordNumber: 1 DN; recordedBy: MG
- county: NOR-Vestfold; locality: In the vicinity of Dolven; verbatimElevation: 80; х. decimalLatitude: 59.0089; decimalLongitude: 9.9003; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter; recordNumber: 2 9, 1 AD; recordedBy: MG
- county: NOR-Vestfold; locality: Larvik, Bøkeskogen; verbatimElevation: 50; у. decimalLatitude: 59.0592; decimalLongitude: 10.0200; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter; recordNumber: 1 ♀, 1 ♂, 2 DN; recordedBy: MG
- county: NOR-Vestfold; locality: Between Kvelde and Rimstad; verbatimElevation: 60; Z. decimalLatitude: 59.2217; decimalLongitude: 9.9592; samplingProtocol: T; eventDate: 03/10/2002; habitat: Soil; recordNumber: 2 9, 1 DN; recordedBy: MG
- county: NOR-Vestfold; locality: Rien, in the vicinity of Odberg; verbatimElevation: 50; aa. decimalLatitude: 59.2708; decimalLongitude: 9.9300; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter; recordNumber: 1 DN; recordedBy: MG
- ab. county: SWE-Skåne; locality: Skäralid, northern Lierna (=TrapID 36); verbatimElevation: 125; decimalLatitude: 56.0264; decimalLongitude: 13.2230; samplingProtocol: M; eventDate: 22/06/2005 - 07/07/2005 (=Coll.ID 1826); habitat: Beech forest with wavy hairgrass; recordNumber: 1 L; recordedBy: SMTP
- county: SWE-Västerbotten; locality: Vindelfjällen nature reserve, Tjulträsklaspen ac. (=TrapID 46); verbatimElevation: 600; decimalLatitude: 65.9668; decimalLongitude: 16.0605; samplingProtocol: M; eventDate: 26/07/2004 - 15/08/2004 (=Coll.ID 1201); habitat: Alpine birch wood; recordNumber: 2 L; recordedBy: SMTP

Distribution: Norway (Buitendijk 1945, Haitlinger 2000, Makol and Gulvik 2002), Sweden (de Geer 1778) and Finland (Karppinen 1958, Gabryś et al. 2009).

Notes: Rhyncholophus nemorum C.L. Koch, 1836 and Leptus beroni Fain, 1991 are junior synonyms (Makol et al. 2011).

Leptus plumosus (Thor, 1900) [PL]

GBIF https://www.gbif.org/species/8566707

Distribution: Norway (Thor 1900a).

Notes: Regarded by Beron (2008) as species inquirenda.

Leptus rubricatus (C.L. Koch, 1837) [PL]

GBIF https://www.gbif.org/species/9182680

Distribution: Sweden (Andersén 1863) and Finland (Gabrys et al. 2009).

Leptus sigthori (Oudemans, 1913) [PL]

GBIF http://www.gbif.org/species/8057633

Distribution: Sweden (Sellnick 1949).

Notes: Only single record in literature (Sellnick 1949) and no recent occurrences since then. Identification questionable.

Leptus slivovi Beron, 1975 [L]

• GBIF http://www.gbif.org/species/6919464

Distribution: Norway (Southcott 1992).

Leptus trimaculatus (Rossi, 1794) [PL, L]

GBIF http://www.gbif.org/species/6919458

- a. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/09/2002; habitat: Soil, undergrowth; recordNumber: 1 ?, 8 AD, 32 DN; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: In the vicinity of Kroken; verbatimElevation:
 50; decimalLatitude: 61.3464; decimalLongitude: 7.3981; samplingProtocol: T;
 eventDate: 20/07/2003; habitat: Soil, moss; recordNumber: 1 DN, 1 L; recordedBy: MG
- c. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 24/07/2003; habitat: Soil, undergrowth; recordNumber: 5 ?, 1 , 9 AD, 8 DN, 22 L; recordedBy: MG
- d. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 1 2, 2 3, 3 AD, 17 DN, 5 L,; recordedBy: MG
- e. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 20/09/2003; habitat: Soil, undergrowth; recordNumber: 2 *, 2 *, 1 DN, 3 AD; recordedBy: MG
- f. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 28/09/2003; habitat: Soil, undergrowth; recordNumber: 1 ?,1 ,6 DN, 2 AD; recordedBy: MG

- g. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4719; decimalLongitude: 7.5461; samplingProtocol: T; eventDate: 05/11/2005; habitat: Forest edge, soil; recordNumber: 2 9, 4 DN; recordedBy: MG
- h. county: SWE-Södermanland; locality: Tullgarns näs, Rävsalaviken (=TrapID 30); verbatimElevation: 15; decimalLatitude: 58.9552; decimalLongitude: 17.6075; samplingProtocol: M; eventDate: 03/07/2004 19/08/2004 (=Coll.ID 1055); habitat: Mixed forest next to pasture; recordNumber: 1 L; recordedBy: SMTP

Distribution: Norway (Thor 1900a), Sweden (Andersén 1863, Haitlinger 2008) and Finland (Karppinen 1958, Gabryś et al. 2009).

Leptus vertex (Kramer, 1886) [PL]

GBIF http://www.gbif.org/species/6919564

Materials

- county: NOR-Buskerud; locality: Uvdal, in the vicinity of Rødberg,; verbatimElevation: 500; decimalLatitude: 60.2656; decimalLongitude: 8.8014; samplingProtocol: T; eventDate: 30/09/2002; habitat: Litter, lichens, humus; recordNumber: 1 DN; recordedBy: MG
- b. county: NOR-Oppland; locality: In the vicinity of Bøvertun; verbatimElevation: 940; decimalLatitude: 61.6453; decimalLongitude: 8.1017; samplingProtocol: T; eventDate: 17/05/2003; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG, SS
- c. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U; eventDate: 06/07/2006; habitat: Grassy slope by the river, boulder covered with moss; recordNumber: 1 %, 2 %; recordedBy: JŁ

Distribution: Norway (Thor 1900a), Sweden (Trägårdh 1910) and Finland (Gabryś et al. 2009).

Family Smarididae Vitzthum, 1929

Subfamily Hirstiosomatinae Southcott, 1946

Hirstiosoma ampulligera (Berlese, 1887) [PL, L]

GBIF http://www.gbif.org/species/4539748

Distribution: Norway (Thor 1900a).

Notes: Only single record in literature (Thor 1900a) and no recent occurrences since then. Identification questionable.

Hirstiosoma latreillei (Grandjean, 1947) [PL, L]

GBIF http://www.gbif.org/species/4539747

Materials

- a. county: NOR-Sogn og Fjordane; locality: Urnes; verbatimElevation: 100;
 decimalLatitude: 61.2978; decimalLongitude: 7.3242; samplingProtocol: T; eventDate: 19/08/2001; habitat: Litter; recordNumber: 1 AD, 1 DN, 1 L; recordedBy: MG, GM
- county: NOR-Sogn og Fjordane; locality: Hella; verbatimElevation: 100;
 decimalLatitude: 61.2083; decimalLongitude: 6.5975; samplingProtocol: T; eventDate: 23/09/2001; habitat: Litter; recordNumber: 1 AD; recordedBy: MG
- c. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6042; samplingProtocol: U; eventDate: 06/07/2006; habitat: By the river, near boulder covered with moss, ant-hill; recordNumber: 1 AD; recordedBy: JŁ
- d. county: NOR-Sogn og Fjordane; locality: Selja; verbatimElevation: 25; decimalLatitude: 62.0475; decimalLongitude: 5.3133; samplingProtocol: T; eventDate: 06/08/2006; habitat: Moss on rocks; recordNumber: 1 L; recordedBy: MG, JŁ
- e. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4994; decimalLongitude: 7.6097; samplingProtocol: T; eventDate: 09/12/2006; habitat: Decomposed bark at the base of birch; recordNumber: 1 DN; recordedBy: MG, MW

Distribution: Finland (Gabryś et al. 2009) and new for Norway.

Superfamily Trombidioidea

Family Johnstonianidae Thor, 1935

Subfamily Johnstonianinae Thor, 1935

Centrotrombidium schneideri Kramer, 1896 [PL, L]

• GBIF http://www.gbif.org/species/4540947

Distribution: Norway (Oudemans 1927).

Notes: Only single record in literature (Oudemans 1927) and no recent occurrences since then.

Diplothrombium longipalpe (Berlese, 1887) [PL, L]

GBIF http://www.gbif.org/species/4540943

Materials

- county: FIN-Southwest Finland; locality: Korppoo, Jurmo; decimalLatitude: 59.8;
 decimalLongitude: 21.5; samplingProtocol: P; eventDate: 29/06/1969 14/08/1969;
 habitat: bog; recordNumber: 1 PL; recordedBy: PTL
- county: FIN-Southwest Finland; locality: Parainen, Lapplahti, Kalastajakopinranta;
 decimalLatitude: 60.2; decimalLongitude: 21.9; samplingProtocol: P; eventDate:
 06/07/1966 13/10/1966; habitat: moist spruce forest with ferns; recordNumber: 1 PL;
 recordedBy: PTL
- c. county: FIN-Southwest Finland; locality: Tarvasjoki, Eurankylä; decimalLatitude: 60.6; decimalLongitude: 22.7; samplingProtocol: P; eventDate: 13/07/1969 03/08/1969; habitat: bog; recordNumber: 1 PL; recordedBy: PS. Kännö
- d. county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 1 ?, 1 AD; recordedBy: MG

Distribution: Norway (Wohltmann et al. 2004) and new for Finland.

Diplothrombium rackae Wohltmann, Makol & Gabryś, 2004 [L]

Material

a. county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 5 L; recordedBy: MG

Distribution: New for Norway.

Diplothrombium zbigniewi Haitlinger, 2001 [L]

GBIF http://www.gbif.org/species/4540937

Materials

- a. county: NOR-Akershus; locality: Østmarka; verbatimElevation: 250; decimalLatitude: 59.8425; decimalLongitude: 11.0338; samplingProtocol: T; eventDate: 07/06/2002; habitat: Moss, litter, soil from small peatbog; recordNumber: 1 L; recordedBy: MG
- county: NOR-Buskerud; locality: Near Hostvet, at the level of Lande;
 verbatimElevation: 80; decimalLatitude: 59.6083; decimalLongitude: 9.7425;
 samplingProtocol: T; eventDate: 30/09/2002; habitat: Soil, moss, litter; recordNumber: 1 L; recordedBy: MG
- c. county: SWE-Kalmar; locality: Bäckebo, Grytsjön nature reserve (=TrapID 1001); verbatimElevation: 80; decimalLatitude: 56.9314; decimalLongitude: 16.0855; samplingProtocol: M; eventDate: 18/05/2006 15/06/2006 (=Coll.ID 1728); habitat: Old moist haymaking meadow in forest edge; recordNumber: 3 L; recordedBy: SMTP

Distribution: New for Norway and Sweden.

Johnstoniana errans (Johnston, 1852) [PL, L]

GBIF http://www.gbif.org/species/4540955

Distribution: New for Sweden.

Notes: Unpublished record in material collected by Lohmander on Öland (no additional data) at the Swedish Museum of Natural History, Stockholm.

Johnstoniana eximia (Berlese, 1910) [PL, L]

GBIF https://www.gbif.org/species/4540964

Materials

- a. county: NOR-Akershus; locality: By the river Leira, in the vicinity of Lillestrøm; verbatimElevation: 100; decimalLatitude: 59.9642; decimalLongitude: 11.0880; samplingProtocol: T; eventDate: 06/06/2002; habitat: By the river, litter, humus; recordNumber: 1 L; recordedBy: MG
- county: NOR-Buskerud; locality: Morud; verbatimElevation: 200; decimalLatitude: 60.0603; decimalLongitude: 9.8594; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter; recordNumber: 7 L; recordedBy: MG
- c. county: NOR-Vestfold; locality: In the vicinity of Nalum; verbatimElevation: 50; decimalLatitude: 58.9894; decimalLongitude: 9.9853; samplingProtocol: T; eventDate: 03/10/2002; habitat: Soil, litter; recordNumber: 1 &; recordedBy: MG

Distribution: New for Norway.

Johnstoniana parva Wendt, Wohltmann, Eggers & Otto, 1994 [PL, L]

GBIF http://www.gbif.org/species/4540960

Material

a. county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 6 L; recordedBy: MG

Distribution: New for Norway.

Johnstoniana rapax Wendt & Eggers, 1994 [PL, L]

GBIF http://www.gbif.org/species/4540967

- a. county: FIN-Central Finland; locality: Jyväskylä commune, Palokka; decimalLatitude: 62.3; decimalLongitude: 25.6; eventDate: 11/08/1997; habitat: Alvajärvi lakeshore bush; recordNumber: 1 *; recordedBy: PTL
- b. county: FIN-Northern Savonia; locality: Sonkajärvi, Sukeva Kalakoski; decimalLatitude: 63.8; decimalLongitude: 27.4; eventDate: 07/08/1982; habitat: Stony shore of rapids with *Filipendula* and grass; recordNumber: 1 ?; recordedBy: PTL
- c. county: FIN-Southwest Finland; locality: Korppoo, Jurmo; decimalLatitude: 59.8; decimalLongitude: 21.5; samplingProtocol: P; eventDate: 17/07/1968 12/10/1968; habitat: Juniper stand; recordNumber: 1 *; recordedBy: PTL

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- d. county: FIN-Southwest Finland; locality: Parainen, Mustfinnö Ippos; decimalLatitude: 60.2; decimalLongitude: 22.1; samplingProtocol: P; eventDate: 26/08/1969 18/10/1969; habitat: Deciduous forest on a lake shore; recordNumber: 2 º, 1 ad; recordedBy: PTL
- e. county: FIN-Southwest Finland; locality: Parainen, Lapplahti, Kalastajakopinranta; decimalLatitude: 60.2; decimalLongitude: 21.9; eventDate: 18/07/1982; habitat: Bottom of wet common reed stand on seashore; recordNumber: 2 &; recordedBy: PTL
- f. county: FIN-Southwest Finland; locality: Parainen, Lapplahti; decimalLatitude: 60.29; decimalLongitude: 22.09; samplingProtocol: P; eventDate: 06/1996 08/1996; habitat: Moist deciduous forest; recordNumber: 2 AD, 1 DN; recordedBy: PTL

Distribution: Finland (Wohltmann et al. 2004).

Family Microtrombidiidae Thor, 1935

Subfamily Eutrombidiinae Thor, 1935

Eutrombidium frigidum Berlese, 1910 [PL]

GBIF https://www.gbif.org/species/4540722

Distribution: Norway (Berlese 1910).

Notes: Only single record in literature (Berlese 1910) and no recent occurrences since then. Identification questionable.

Eutrombidium trigonum (Hermann, 1804) [PL, L]

GBIF http://www.gbif.org/species/4540723

Distribution: Norway (Thor 1900b).

Notes: Only single record in literature (Thor 1900) and no recent occurrences since then. Identification questionable.

Subfamily Microtrombidiinae Thor, 1935

Atractothrombium fusicomum (Berlese, 1910) [PL, L]

GBIF https://www.gbif.org/species/4540640

Material

a. county: FIN-Southwest Finland; locality: Nauvo, Sandö, W-shore; decimalLatitude: 60.1; decimalLongitude: 22.0; eventDate: 01/06/1992; habitat: Decaying reed; recordNumber: 1 *; recordedBy: PTL

Distribution: New for Finland.

Atractothrombium sylvaticum (C.L. Koch, 1835) [PL, L]

GBIF https://www.gbif.org/species/4540644

Materials

- a. county: NOR-Hordaland; locality: Stalheimskleiva; verbatimElevation: 125;
 decimalLatitude: 60.8431; decimalLongitude: 6.7111; samplingProtocol: T; eventDate: 12/08/2001; habitat: Litter; recordNumber: 4 L; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Atløy; verbatimElevation: 100;
 decimalLatitude: 61.3472; decimalLongitude: 4.9589; samplingProtocol: T; eventDate:
 22/05/2001; habitat: Grass tussocks on stony beach, humic soil with herbaceous plants and moss; recordNumber: 1 DN; recordedBy: JM
- c. county: NOR-Sogn og Fjordane; locality: Urnes; verbatimElevation: 100;
 decimalLatitude: 61.2978; decimalLongitude: 7.3242; samplingProtocol: T; eventDate: 19/08/2001; habitat: Litter; recordNumber: 5 L; recordedBy: MG, GM
- d. county: NOR-Sogn og Fjordane; locality: Kvål, in the vicinity of Grimeland; verbatimElevation: 150; decimalLatitude: 61.5122; decimalLongitude: 5.9925; samplingProtocol: T; eventDate: 22/09/2006; habitat: Riverside with alder trees, from the inside of decaying tree trunk; recordNumber: 1 DN; recordedBy: MG

Distribution: Norway (Berlese 1910, Mąkol and Gulvik 2002) and Sweden (Andersén 1863).

Notes: *Microtrombidium* (*Enemothrombium*) *simulans* Berlese, 1910 is a junior synonym (Gabryś et al. 2005).

Atractothrombium tectocervix (Oudemans, 1903) [L]

GBIF https://www.gbif.org/species/4540645

Distribution: Norway (Oudemans 1912) and Sweden (Oudemans 1912, Sellnick 1958).

Notes: Species originally assigned to *Hydrachna* by Oudemans (1903). No recent records. Identification questionable.

Atractothrombium sp.

Material

a. county: SWE-Värmland; locality: Ransäter, Rudstorp (=TrapID 1002); verbatimElevation: 85; decimalLatitude: 59.7730; decimalLongitude: 13.4737; samplingProtocol: M; eventDate: 07/07/2005 - 15/07/2005 (=Coll.ID 1375); habitat: Sandy railway embankment through pasture-land; recordNumber: 1 L; recordedBy: SMTP

Notes: Potential new species for science from Sweden. Morphologically near *Atractothrombium sylvaticum* (C.L. Koch, 1835).

Camerotrombidium pexatum (C.L. Koch, 1837) [PL, L]

GBIF http://www.gbif.org/species/4540682

Distribution: Norway (Thor 1900b, Berlese 1910, Makol and Gulvik 2002).

Notes: *Microtrombium* (*Enemothrombium*) *calicigerum* Berlese, 1910 is a junior synonym (Hull 1918).

Camerotrombidium rasum (Berlese, 1910) [PL, L]

GBIF http://www.gbif.org/species/4540676

Materials

- county: NOR-Hordaland; locality: Between Fossmarki and Stanghelle;
 verbatimElevation: 75; decimalLatitude: 60.5308; decimalLongitude: 5.7247;
 samplingProtocol: T; eventDate: 22/08/2006; habitat: Humus; recordNumber: 1 DN;
 recordedBy: MG, JŁ
- county: NOR-Sogn og Fjordane; locality: In the vicinity of Eikefjord; verbatimElevation: 100; decimalLatitude: 61.5972; decimalLongitude: 5.4336; samplingProtocol: T; eventDate: 13/08/2000; habitat: Litter; recordNumber: 1 AD; recordedBy: MG
- c. county: NOR-Sogn og Fjordane; locality: Luster; verbatimElevation: 25;
 decimalLatitude: 61.4458; decimalLongitude: 7.4661; samplingProtocol: T; eventDate: 11/04/2001; habitat: Soil, litter, undergrowth; recordNumber: 1 AD; recordedBy: MG
- d. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, undergrowth; recordNumber: 1AD; recordedBy: MG
- e. county: NOR-Sogn og Fjordane; locality: Between Opptun and Fortun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate: 15/11/2005; habitat: Soil, moss, animal faeces; recordNumber: 2 AD, 2 DN; recordedBy: MG
- f. county: NOR-Sogn og Fjordane; locality: Selja; verbatimElevation: 50; decimalLatitude: 62.0475; decimalLongitude: 5.3133; samplingProtocol: T; eventDate: 03/06/2006; habitat: Soil, humus, moss; recordNumber: 2 AD; recordedBy: IA
- g. county: FIN-Southwest Finland; locality: Parainen, Sydmo, Ippos; decimalLatitude:
 60.2; decimalLongitude: 22.1; eventDate: 06/09/1966; habitat: In mire; recordNumber:
 2 PL; recordedBy: PTL
- h. county: FIN-Southwest Finland; locality: Parainen, Mustfinno; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 10/10/1966; recordNumber: 1 AD; recordedBy: PTL

Distribution: Norway (Mąkol and Gulvik 2002) and new for Finland.

Camerotrombidium sigthori Thor & Willmann, 1947 [PL]

GBIF http://www.gbif.org/species/4540681

Distribution: Norway (Thor 1900b).

Notes: *Camerotrombidium sigthori* Thor & Willmann, 1947 is a replacement name for *Ottonia purpurea* s. Thor (1900b). Only single record in literature (Thor 1900b) and no recent occurrences since then. Identification questionable.

Camerotrombidium vesiculosum (Thor, 1900) [PL]

GBIF http://www.gbif.org/species/4540674

Distribution: Norway (Thor 1900b).

Notes: Only single record in literature (Thor 1900, as *Ottonia vesiculosa*) and no recent occurrences since then. Identification questionable.

Campylothrombium clavatum (George, 1909) [PL, L]

GBIF http://www.gbif.org/species/4540621

- county: NOR-Akershus; locality: Østmarka; verbatimElevation: 250; decimalLatitude: 59.8425; decimalLongitude: 11.0338; samplingProtocol: T; eventDate: 07/06/2002; habitat: Soil, litter; recordNumber: 1 AD; recordedBy: MG
- county: NOR-Buskerud; locality: Lerberg, in the vicinity of Hokksund;
 verbatimElevation: 100; decimalLatitude: 59.7772; decimalLongitude: 9.9244;
 samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter; recordNumber: 1 L;
 recordedBy: MG
- c. county: NOR-Buskerud; locality: Vikersund; verbatimElevation: 100; decimalLatitude: 59.9675; decimalLongitude: 9.9847; samplingProtocol: T; eventDate: 06/06/2001; habitat: Decaying wood from tree trunk, litter and soil from trunk surroundings; recordNumber: 14 L; recordedBy: MG
- d. county: NOR-Buskerud; locality: Morud; verbatimElevation: 200; decimalLatitude: 60.0603; decimalLongitude: 9.8594; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter; recordNumber: 1 º, 3 AD, 1 DN; recordedBy: MG
- e. county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Soil, litter; recordNumber: 1 AD; recordedBy: MG
- f. county: NOR-Hordaland; locality: In the vicinity of Stanghelle; verbatimElevation: 50; decimalLatitude: 60.5492; decimalLongitude: 5.7344; samplingProtocol: T; eventDate: 24/06/2001; habitat: Soil, litter; recordNumber: 1 AD; recordedBy: MG
- g. county: NOR-Vestfold; locality: Larvik, Bøkeskogen; verbatimElevation: 50;
 decimalLatitude: 59.0592; decimalLongitude: 10.0200; samplingProtocol: T; eventDate: 03/10/2002; habitat: Soil, litter; recordNumber: 1 DN; recordedBy: MG
- h. county: SWE-Kalmar; locality: Öland (=TrapID 22); verbatimElevation: 40; decimalLatitude: 56.6167; decimalLongitude: 16.5076; samplingProtocol: M; eventDate: 15/06/2005 29/06/2005 (=Coll.ID 1314); habitat: Meadow with bushes; recordNumber: 1 L; recordedBy: SMTP
- i. county: SWE-Uppsala; locality: Biskops-Arnö (=TrapID 8); verbatimElevation: 10; decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate: 20/06/2005 18/07/2005 (=Coll.ID 1602); habitat: Northern beach, elm grove; recordNumber: 2 L; recordedBy: SMTP

- j. county: FIN-North Karelia; locality: Lieksa, Koli, Ipattivaara; decimalLatitude: 63.1; decimalLongitude: 29.8; eventDate: 01/06/1983; habitat: In litter of mixed forest (aspen, pine & spruce); recordNumber: 1 DN; recordedBy: PTL
- k. county: FIN-North Karelia; locality: Ilomantsi, Kuikkalampi, Särkkä; decimalLatitude:
 62.8; decimalLongitude: 30.9; samplingProtocol: U; eventDate: 15/08/1997; habitat:
 Lakeshore bush; recordNumber: 1 PL; recordedBy: JM
- county: FIN-Southwest Finland; locality: Parainen, Mustfinno; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 07/06/1966; recordNumber: 1 AD; recordedBy: PTL
- m. county: FIN-Southwest Finland; locality: Parainen, Sydmo, Ippos; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 13/06/1966; recordNumber: 1 DN; recordedBy: PTL
- n. county: FIN-Southwest Finland; locality: Parainen, Sydmo, Ippos; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 14/06/1966; recordNumber: 2 9; recordedBy: PTL
- o. county: FIN-Southwest Finland; locality: Parainen, Mustfinno; decimalLatitude: 60.2; decimalLongitude: 21.9; eventDate: 10/10/1966; recordNumber: 1 *, 1 PL; recordedBy: PTL
- p. county: FIN-Southwest Finland; locality: Parainen, Lapplahti; decimalLatitude: 60.29; decimalLongitude: 22.09; samplingProtocol: P; eventDate: 06/1967 08/1967; habitat: Moist deciduous forest; recordNumber: 1 º, 1 ॰, 3 AD, 4 PL; recordedBy: PTL
- q. county: FIN-Southwest Finland; locality: Parainen, Kurckas; decimalLatitude: 60.2; decimalLongitude: 22.1; samplingProtocol: P; eventDate: 17/05/1968 05/07/1968; habitat: Meadow in spruce forest; recordNumber: 1 AD; recordedBy: PTL
- r. county: FIN-Southwest Finland; locality: Kaarina, Karpanmäki; decimalLatitude: 60.3; decimalLongitude: 22.3; samplingProtocol: P; eventDate: 09/05/1989 13/06/1989; habitat: Oak forest; recordNumber: 1 3, 8 AD; recordedBy: SK
- s. county: FIN-Southwest Finland; locality: Kaarina, Kuusisto; decimalLatitude: 60.3; decimalLongitude: 22.3; samplingProtocol: P; eventDate: 15/07/1989 23/09/1989; habitat: Oak forest; recordNumber: 1 AD; recordedBy: SK

Distribution: New for Norway, Sweden and Finland.

Campylothrombium striaticeps (Oudemans, 1904) [L]

Distribution: Sweden (Sellnick 1958).

Notes: Only single record in literature (Sellnick 1958) and no recent occurrences since then. Identification questionable.

Dactylothrombium pulcherrimum (Haller, 1882) [PL, L]

• GBIF http://www.gbif.org/species/4540615

Materials

a. county: NOR-Akershus; locality: By the river Leira, in the vicinity of Lillestrøm; verbatimElevation: 100; decimalLatitude: 59.9642; decimalLongitude: 11.0880; samplingProtocol: T; eventDate: 06/06/2002; habitat: By the river, litter, humus; recordNumber: 1 AD; recordedBy: MG

- b. county: NOR-Akershus; locality: Østmarka; verbatimElevation: 250; decimalLatitude: 59.8425; decimalLongitude: 11.0338; samplingProtocol: T; eventDate: 07/06/2002; habitat: Litter, soil, rot from the inside of decaying tree trunk; recordNumber: 2 AD, 1 °; recordedBy: MG
- c. county: NOR-Buskerud; locality: Between Lindelia and Sønsteby, shore of lake Krøderen; verbatimElevation: 150; decimalLatitude: 60.3392; decimalLongitude: 9.6489; samplingProtocol: T; eventDate: 26/08/2000; habitat: Shore of lake, moss, litter, soil; recordNumber: 1 AD; recordedBy: MG
- d. county: NOR-Buskerud; locality: Vikersund; verbatimElevation: 100; decimalLatitude: 59.9675; decimalLongitude: 9.9847; samplingProtocol: T; eventDate: 06/06/2001; habitat: Rot from tree trunk, litter and soil from trunk surroundings; recordNumber: 2 *, 1 AD, 2 DN; recordedBy: MG
- e. county: NOR-Buskerud; locality: Morud; verbatimElevation: 200; decimalLatitude: 60.0603; decimalLongitude: 9.8594; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter; recordNumber: 1 º, 10 AD, 2 L; recordedBy: MG
- f. county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 3 AD, 1 DN; recordedBy: MG
- g. county: NOR-Buskerud; locality: Hjelmen; verbatimElevation: 600; decimalLatitude: 60.8081; decimalLongitude: 8.6772; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 1 AD; recordedBy: MG
- h. county: NOR-Hordaland; locality: In the vicinity of Stanghelle; verbatimElevation: 50; decimalLatitude: 60.5492; decimalLongitude: 5.7344; samplingProtocol: T; eventDate: 24/06/2001; habitat: Litter, soil; recordNumber: 1 ?, 3 DN; recordedBy: MG
- i. county: NOR-Hordaland; locality: Between Bulken and Rekve; verbatimElevation: 60; decimalLatitude: 60.6275; decimalLongitude: 6.2961; samplingProtocol: T; eventDate: 24/06/2001; habitat: Moss and humus at the base of tree trunk; recordNumber: 3 AD, 2 L; recordedBy: MG
- j. county: NOR-Hordaland; locality: In the vicinity of Kolstallen and Bergen; verbatimElevation: 50; decimalLatitude: 60.4411; decimalLongitude: 5.4511; samplingProtocol: T; eventDate: 04/07/2001; habitat: Soil, undergrowth, rot from decaying tree trunk; recordNumber: 3 \, 1 L; recordedBy: MG
- k. county: NOR-Hordaland; locality: Blinde; verbatimElevation: 100; decimalLatitude: 60.4639; decimalLongitude: 5.3786; samplingProtocol: T; eventDate: 04/07/2001; habitat: Moss, litter, soil; recordNumber: 1 DN; recordedBy: MG
- I. county: NOR-Hordaland; locality: Haukeland, in the vicinity of Bergen; verbatimElevation: 100; decimalLatitude: 60.3528; decimalLongitude: 5.4478; samplingProtocol: T; eventDate: 05/07/2004; habitat: Soil, humus, litter; recordNumber: 2 DN, 1 °; recordedBy: MG
- m. county: NOR-Hordaland; locality: Dale; verbatimElevation: 50; decimalLatitude: 60.5881; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 5/07/2004; habitat: Litter, humus; recordNumber: 2 DN; recordedBy: MG
- n. county: NOR-Hordaland; locality: Dale; verbatimElevation: 50; decimalLatitude: 60.5881; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 25/06/2005; habitat: Litter, humus; recordNumber: 1 °; recordedBy: MG
- county: NOR-Hordaland; locality: Hola; verbatimElevation: 570; decimalLatitude: 60.9019; decimalLongitude: 6.4836; samplingProtocol: T; eventDate: 25/06/2005; habitat: Litter, moss; recordNumber: 3 AD, 1 DN, 7 L,; recordedBy: MG

- p. county: NOR-Sogn og Fjordane; locality: Kaupanger; verbatimElevation: 200; decimalLatitude: 61.1942; decimalLongitude: 7.2192; samplingProtocol: T; eventDate: 15/08/2000; habitat: Rot from tree trunk; recordNumber: 1 +, 2 AD; recordedBy: MG
- q. county: NOR-Sogn og Fjordane; locality: In the vicinity of Sogndal; verbatimElevation: 180; decimalLatitude: 61.2042; decimalLongitude: 7.1983; samplingProtocol: T; eventDate: 15/08/2000; habitat: Soil, humus; recordNumber: 2 AD; recordedBy: MG
- r. county: NOR-Sogn og Fjordane; locality: Mo, in the vicinity of Moskog; verbatimElevation: 100; decimalLatitude: 61.4364; decimalLongitude: 5.9856; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, litter, soil; recordNumber: 1 DN; recordedBy: MG
- s. county: NOR-Sogn og Fjordane; locality: Førde; verbatimElevation: 100; decimalLatitude: 61.4550; decimalLongitude: 5.8581; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, soil, undergrowth, beneath rock wall; recordNumber: 1 AD; recordedBy: MG
- t. county: NOR-Sogn og Fjordane; locality: In the vicinity of Bøyabreen; verbatimElevation: 150; decimalLatitude: 61.4811; decimalLongitude: 6.7419; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, litter, soil; recordNumber: 3 AD, 1 DN; recordedBy: MG
- u. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5447; decimalLongitude: 6.5106; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, litter, soil; recordNumber: 1 AD; recordedBy: MG
- v. county: NOR-Sogn og Fjordane; locality: Atløy; verbatimElevation: 100; decimalLatitude: 61.3472; decimalLongitude: 4.9589; samplingProtocol: T; eventDate: 22/05/2001; habitat: Grass tussocks on stony beach, humus, undergrowth, moss; recordNumber: 1 L; recordedBy: JM
- w. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 300;
 decimalLatitude: 61.3314; decimalLongitude: 7.2144; samplingProtocol: T; eventDate: 25/05/2001; habitat: Moss, litter, soil; recordNumber: 2 AD, 1 DN; recordedBy: MG, JM
- county: NOR-Sogn og Fjordane; locality: Osen; verbatimElevation: 1 120;
 decimalLatitude: 61.0078; decimalLongitude: 8.1094; samplingProtocol: T; eventDate: 07/06/2001; habitat: Moss, litter, soil; recordNumber: 1 DN; recordedBy: MG
- y. county: NOR-Sogn og Fjordane; locality: Hønjum, in the vicinity of Bjørkum; verbatimElevation: 100; decimalLatitude: 61.0583; decimalLongitude: 7.6617; samplingProtocol: T; eventDate: 07/06/2001; habitat: Moss, soil; recordNumber: 1 AD; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Lærdalsøyri; verbatimElevation: 100;
 decimalLatitude: 61.0972; decimalLongitude: 7.4911; samplingProtocol: T; eventDate:
 07/06/2001; habitat: Litter, soil; recordNumber: 2 AD, 19 DN, 1 L; recordedBy: MG
- aa. county: NOR-Sogn og Fjordane; locality: Balestrand; verbatimElevation: 100; decimalLatitude: 61.2081; decimalLongitude: 6.5281; samplingProtocol: T; eventDate: 31/07/2001; habitat: Moss at the base of decaying alder trunk; recordNumber: 1 DN; recordedBy: MG, GM
- ab. county: NOR-Sogn og Fjordane; locality: In the vicinity of Urnes; verbatimElevation: 50; decimalLatitude: 61.3114; decimalLongitude: 7.3556; samplingProtocol: T; eventDate: 19/08/2001; habitat: Moss, soil, humus; recordNumber: 1 DN; recordedBy: MG, GM
- ac. county: NOR-Sogn og Fjordane; locality: In the vicinity of Bøyabreen; verbatimElevation: 175; decimalLatitude: 61.4817; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG

- ad. county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 980; decimalLatitude: 60.9964; decimalLongitude: 6.5461; samplingProtocol: T; eventDate: 23/09/2001; habitat: Soil, humus, moss; recordNumber: 1 DN; recordedBy: MG
- ae. county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 950; decimalLatitude: 60.9917; decimalLongitude: 6.5403; samplingProtocol: T; eventDate: 23/09/2001; habitat: Moss, soil, undergrowth; recordNumber: 3 AD; recordedBy: MG
- af. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4903; decimalLongitude: 7.5736; samplingProtocol: T; eventDate: 08/05/2002; habitat: Litter, soil, moss, rot; recordNumber: 2 AD, 23 L; recordedBy: MG
- ag. county: NOR-Sogn og Fjordane; locality: In the vicinity of Opptun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate: 10/05/2002; habitat: Rot, litter, soil; recordNumber: 1 *, 1 AD; recordedBy: MG
- ah. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/09/2002; habitat: Soil, undergrowth; recordNumber: 1 AD; recordedBy: MG
- ai. county: NOR-Sogn og Fjordane; locality: Mørkri, in the vicinity of Skjolden; verbatimElevation: 150; decimalLatitude: 61.5567; decimalLongitude: 7.6208; samplingProtocol: T; eventDate: 20/04/2003; habitat: Soil, humus; recordNumber: 1 AD; recordedBy: MG, GM
- aj. county: NOR-Sogn og Fjordane; locality: Hafslovatnet, in the vicinity of Hafslo; verbatimElevation: 200; decimalLatitude: 61.2917; decimalLongitude: 7.1647; samplingProtocol: T; eventDate: 04/08/2003; habitat: Near lake, moss, soil; recordNumber: 2 DN; recordedBy: MG, MK
- ak. county: NOR-Sogn og Fjordane; locality: In the vicinity of Opptun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate: 08/05/2005; habitat: Soil, litter; recordNumber: 3 L,; recordedBy: MG, GM
- al. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4733; decimalLongitude: 7.2547; samplingProtocol: T; eventDate: 15/05/2005; habitat: Soil, humus at the base of alder tree; recordNumber: 7 AD, 29 L; recordedBy: MG, GM
- am. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4917; decimalLongitude: 7.2681; samplingProtocol: T; eventDate: 15/05/2005; habitat: Rot from alder tree trunk, humus; recordNumber: 5 AD, 1 DN, 81 L; recordedBy: MG, GM
- an. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 100; decimalLatitude: 61.5039; decimalLongitude: 7.2750; samplingProtocol: T; eventDate: 15/05/2005; habitat: Rot, moss; recordNumber: 1 DN; recordedBy: MG, GM
- county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25;
 decimalLatitude: 61.4914; decimalLongitude: 7.6000; samplingProtocol: T; eventDate: 05/11/2005; habitat: Soil, litter; recordNumber: 3 AD; recordedBy: MG
- ap. county: NOR-Sogn og Fjordane; locality: Between Opptun and Fortun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate: 15/11/2005; habitat: Soil, litter; recordNumber: 1 DN; recordedBy: MG
- aq. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Fortun; verbatimElevation: 25; decimalLatitude: 61.4878; decimalLongitude: 7.6594;

- samplingProtocol: T; eventDate: 25/11/2005; habitat: Moss and soil; recordNumber: 4 AD; recordedBy: MG
- ar. county: NOR-Sogn og Fjordane; locality: Leirdal, in the vicinity of Gaupne; verbatimElevation: 75; decimalLatitude: 61.4628; decimalLongitude: 7.2497; samplingProtocol: T; eventDate: 25/12/2006; habitat: Decomposed wood, humus; recordNumber: 2 AD, 1 DN; recordedBy: MG
- as. county: NOR-Vestfold; locality: In the vicinity of Nalum; verbatimElevation: 50; decimalLatitude: 58.9894; decimalLongitude: 9.9853; samplingProtocol: T; eventDate: 03/10/2002; habitat: Rot from the inside of decaying tree trunk; recordNumber: 1 ?, 1 AD; recordedBy: MG
- at. county: NOR-Vestfold; locality: Larvik, Bøkeskogen; verbatimElevation: 50; decimalLatitude: 59.0592; decimalLongitude: 10.0200; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter, soil; recordNumber: 3 AD; recordedBy: MG
- au. county: NOR-Vestfold; locality: Between Larvik and Kvelde; verbatimElevation: 25; decimalLatitude: 59.1525; decimalLongitude: 10.0244; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter, soil; recordNumber: 2 °, 2 AD; recordedBy: MG
- av. county: NOR-Vestfold; locality: Between Kvelde and Rimstad; verbatimElevation: 60; decimalLatitude: 59.2217; decimalLongitude: 9.9592; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter; recordNumber: 1 °; recordedBy: MG
- aw. county: NOR-Vestfold; locality: Rien, in the vicinity of Odberg; verbatimElevation: 50; decimalLatitude: 59.2708; decimalLongitude: 9.9300; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter, soil, decaying wood from tree trunk; recordNumber: 2 9, 4 AD; recordedBy: MG

Distribution: Norway (Makol and Gulvik 2002).

Dactylothrombium sp.

Material

a. county: NOR-Sogn og Fjordane; locality: Sognefjellet; verbatimElevation: 1 300;
 decimalLatitude: 61.5478; decimalLongitude: 7.8697; samplingProtocol: T; eventDate: 22/06/2000; habitat: Soil, undergrowth; recordNumber: 10 L; recordedBy: MG, AK

Notes: Potential new species for science from Norway.

Dimorphothrombium geographicum (Berlese, 1910) [PL]

GBIF http://www.gbif.org/species/4540592

Distribution: Norway (Berlese 1910).

Notes: Only single record in literature (Berlese 1910) and no recent occurrences since then. Identification questionable.

Dimorphothrombium plancum (C.L. Koch, 1837) [PL]

GBIF http://www.gbif.org/species/4540584

Distribution: Norway (Thor 1900b).

Notes: Only single record in literature (Thor 1900b, as *Ottonia planca*) and no recent occurrences since then. Identification questionable.

Echinothrombium rhodinum (C. L. Koch, 1837) [PL, L]

GBIF http://www.gbif.org/species/4540597

Materials

- a. county: SWE-Uppsala; locality: Biskops-Arnö (=TrapID 8); verbatimElevation: 10; decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate: 20/06/2005 18/07/2005 (=Coll.ID 1602); habitat: Northern beach, elm grove; recordNumber: 1 L; recordedBy: SMTP
- county: FIN-North Karelia; locality: Tohmajärvi, Kemie, Kirkkoniemi; decimalLatitude:
 62.8; decimalLongitude: 30.9; samplingProtocol: U; eventDate: 15/08/1997; habitat:
 Deciduous forest with *Rhamnus* & alder; recordNumber: 1 º, 3 DN; recordedBy: JM
- c. county: FIN-Northern Ostrobothnia; locality: Oulunsalo, Varjakka; decimalLatitude: 65.0; decimalLongitude: 25.3; eventDate: 13/06/1987; habitat: Seashore meadow; recordNumber: 6 PL; recordedBy: PTL
- d. county: FIN-Southwest Finland; locality: Korppo, Österskär, Brännkläpp;
 decimalLatitude: 59.9; decimalLongitude: 21.1; eventDate: 21/06/1994; habitat: Litter of maritime deciduous forest; recordNumber: 1 DN; recordedBy: PTL
- e. county: FIN-Southwest Finland; locality: Rymättylä, Alakylä, Isoluoto; decimalLatitude: 60.30; decimalLongitude: 21.97; eventDate: 04/09/1997; habitat: Litter of alder and decaying reed on seashore; recordNumber: 1 ?; recordedBy: PTL

Distribution: New for Sweden and Finland.

Echinothrombium spinosum (Canestrini, 1885) [PL, L]

GBIF http://www.gbif.org/species/4540599

- a. county: NOR-Akershus; locality: By the river Leira, in the vicinity of Lillestrøm; verbatimElevation: 100; decimalLatitude: 59.9658; decimalLongitude: 11.0947; samplingProtocol: T; eventDate: 06/06/2002; habitat: By the river, soil; recordNumber: 2 °; recordedBy: MG
- county: NOR-Buskerud; locality: Lerberg, in the vicinity of Hokksund;
 verbatimElevation: 100; decimalLatitude: 59.7772; decimalLongitude: 9.9244;
 samplingProtocol: T; eventDate: 06/06/2001; habitat: Litter, soil; recordNumber: 20 L;
 recordedBy: MG
- c. county: NOR-Buskerud; locality: Vikersund; verbatimElevation: 100; decimalLatitude: 59.9675; decimalLongitude: 9.9847; samplingProtocol: T; eventDate: 06/06/2001;

- habitat: Decaying wood from tree trunk, litter and soil from trunk surroundings; recordNumber: 12 L; recordedBy: MG
- d. county: NOR-Hordaland; locality: In the vicinity of Bulken; verbatimElevation: 75; decimalLatitude: 60.6314; decimalLongitude: 6.2744; samplingProtocol: T; eventDate: 25/06/2005; habitat: Moss and rot at decaying trunk; recordNumber: 1 *; recordedBy: MG
- e. county: NOR-Sogn og Fjordane; locality: In the vicinity of Eikefjord; verbatimElevation: 100; decimalLatitude: 61.5972; decimalLongitude: 5.4336; samplingProtocol: T; eventDate: 13/08/2000; habitat: Litter; recordNumber: 1 AD; recordedBy: MG
- f. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4733; decimalLongitude: 7.2547; samplingProtocol: T; eventDate: 20/09/2000; habitat: Rot of pine tree; recordNumber: 1 DN; recordedBy: MG, GM
- g. county: NOR-Sogn og Fjordane; locality: Mo, in the vicinity of Moskog; verbatimElevation: 100; decimalLatitude: 61.4364; decimalLongitude: 5.9856; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss and rot from tree trunk; recordNumber: 1 º, 1 DN; recordedBy: MG
- h. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5447; decimalLongitude: 6.5106; samplingProtocol: T; eventDate: 11/10/2000; habitat: Litter; recordNumber: 1 DN; recordedBy: MG
- i. county: NOR-Sogn og Fjordane; locality: Anda; verbatimElevation: 100;
 decimalLatitude: 61.8461; decimalLongitude: 6.0817; samplingProtocol: T; eventDate:
 02/02/2001; habitat: Rot from decaying birch tree trunk; recordNumber: 1 DN;
 recordedBy: MG
- j. county: NOR-Sogn og Fjordane; locality: Ytredalen, in the vicinity of Vadheim; verbatimElevation: 100; decimalLatitude: 61.2336; decimalLongitude: 5.8225; samplingProtocol: T; eventDate: 31/07/2001; habitat: Litter; recordNumber: 1 AD; recordedBy: MG, GM
- k. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: Moss and vegetation on decaying trunk of elm tree; recordNumber: 2 DN; recordedBy: MG
- I. county: NOR-Sogn og Fjordane; locality: Hella; verbatimElevation: 100; decimalLatitude: 61.2083; decimalLongitude: 6.5975; samplingProtocol: T; eventDate: 23/09/2001; habitat: Litter; recordNumber: 1 ?, 1 DN; recordedBy: MG
- m. county: NOR-Sogn og Fjordane; locality: Svanøy; verbatimElevation: 100;
 decimalLatitude: 61.4828; decimalLongitude: 5.0972; samplingProtocol: T; eventDate:
 11/11/2001; habitat: Bark, decaying wood and humus from tree trunk; recordNumber: 1
 AD; recordedBy: MG, SSM
- n. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4903; decimalLongitude: 7.5736; samplingProtocol: T; eventDate: 08/05/2002; habitat: Litter, moss, rot from the inside of decaying tree trunk; recordNumber: 3 %; recordedBy: MG
- o. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4733; decimalLongitude: 7.2547; samplingProtocol: T; eventDate: 15/05/2005; habitat: Soil, humus, at the base of alder tree; recordNumber: 4 DN; recordedBy: MG, GM

- p. county: NOR-Sogn og Fjordane; locality: In the vicinity of kjolden; verbatimElevation: 25; decimalLatitude: 61.4950; decimalLongitude: 7.5867; samplingProtocol: T; eventDate: 20/08/2006; habitat: Litter, soil; recordNumber: 1 *; recordedBy: MG, JŁ
- q. county: NOR-Sogn og Fjordane; locality: Fortunsdalen, in the vicinity of Fortun; verbatimElevation: 150; decimalLatitude: 61.5222; decimalLongitude: 7.7128; samplingProtocol: T; eventDate: 20/08/2006; habitat: Soil, humus; recordNumber: 1 DN; recordedBy: MG, JŁ
- r. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4994; decimalLongitude: 7.6097; samplingProtocol: T; eventDate: 09/12/2006; habitat: House garden, soil and litter on stones and under shrub; recordNumber: 2 DN; recordedBy: MG, MW
- s. county: NOR-Sogn og Fjordane; locality: Leirdal, in the vicinity of Gaupne; verbatimElevation: 75; decimalLatitude: 61.4628; decimalLongitude: 7.2497; samplingProtocol: T; eventDate: 25/12/2006; habitat: Decomposed wood, humus; recordNumber: 1 *; recordedBy: MG
- t. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 08/09/2007; habitat: Slope by the road, very moist grass, moss, soil; recordNumber: 3 º, 1 DN; recordedBy: JŁ
- u. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4919; decimalLongitude: 7.6058; samplingProtocol: U; eventDate: 10/09/2007; habitat: Meadow, close to river and forest, relatively moist soil, grass and moss; recordNumber: 1 *; recordedBy: JŁ
- v. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4928; decimalLongitude: 7.6069; samplingProtocol: U; eventDate: 17/09/2007; habitat: Larch forest close to road, moist litter with rot; recordNumber: 1 º; recordedBy: JŁ
- w. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 17/09/2007; habitat: Slope by the road, very moist grass, moss, soil; recordNumber: 1 °; recordedBy: JŁ
- x. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 05/10/2007; habitat: Slope by the road, very moist grass, moss, soil; recordNumber: 1 *; recordedBy: JŁ
- y. county: NOR-Vestfold; locality: Between Larvik and Kvelde; verbatimElevation: 25; decimalLatitude: 59.1525; decimalLongitude: 10.0244; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter, soil; recordNumber: 3 DN; recordedBy: MG
- z. county: NOR-Vestfold; locality: Rien, in the vicinity of Odberg; verbatimElevation: 50; decimalLatitude: 59.2708; decimalLongitude: 9.9300; samplingProtocol: T; eventDate: 03/10/2002; habitat: At the base of tree trunk, soil, humus; recordNumber: 2 DN; recordedBy: MG
- aa. county: SWE-Stockholm; locality: Norrtälje, St. Dylanda; verbatimElevation: 35; decimalLatitude: 59.7078; decimalLongitude: 18.2332; samplingProtocol: S; eventDate: 18/06/2011; habitat: At edge of forest, near forest stream and arable area; recordNumber: 1 PL; recordedBy: JS
- ab. county: FIN-Southwest Finland; locality: Parainen, Lenholm; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 26/02/1995; habitat: Oak forest with junipers and Hepatica triloba; recordNumber: 1 DN; recordedBy: PTL

ac. county: FIN-Åland Islands; locality: Åland, Lemland, Bergö; decimalLatitude: 60.0; decimalLongitude: 19.8; samplingProtocol: U; eventDate: 17/08/1997; habitat: Litter of rowan tree in the mixed forest; recordNumber: 1 ?; recordedBy: JM

Distribution: Norway (Makol and Gulvik 2002) and new for Sweden and Finland.

Ettmuelleria sucida (Trägårdh, 1910) [L]

Distribution: Sweden (Trägårdh 1910).

Notes: Sucidothrombium sucidum (L. Koch, 1879) and Ettmuelleria sucida (Trägårdh, 1910) represent distinct genera and species (Southcott 1994, Mąkol and Gabryś 2002).

Microtrombidium pusillum (Hermann, 1804) [PL, L]

GBIF http://www.gbif.org/species/4540697

Materials

- a. county: FIN-Southwest Finland; locality: Parainen, Sydmo, Ippos; decimalLatitude:
 60.2; decimalLongitude: 22.1; eventDate: 06/09/1966; habitat: Pine mire;
 recordNumber: 5 AD; recordedBy: PTL
- county: FIN-Southwest Finland; locality: Parainen, Mustfinno; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 10/10/1966; recordNumber: 2 AD, 1 DN; recordedBy: PTL

Distribution: Norway (Thor 1900b) and new for Finland.

Microtrombidium spiniferum (Thor, 1900) [PL]

GBIF http://www.gbif.org/species/4540690

Distribution: Norway (Thor 1900b).

Notes: Only single record in literature (Thor 1900b, as *Ottonia spinifera*) and no recent occurrences since then. Identification questionable.

Microtrombidium strandi (Thor, 1900) [PL]

GBIF http://www.gbif.org/species/4540699

Distribution: Norway (Thor 1900b).

Notes: Only single record in literature (Thor 1900b, as *Ottonia strandi*) and no recent occurrences since then. Identification questionable.

Platytrombidium fasciatum (C.L. Koch, 1836) [PL, L]

GBIF http://www.gbif.org/species/4540649

Distribution: Norway (Berlese 1910).

Notes: *Microtrombidium* (*Enemothrombium*) *quadrispinum* Berlese, 1910 is a junior synonym (Gabryś et al. 2005). Only single record in literature (Berlese 1910) and no recent occurrences since then. Identification questionable.

Sucidothrombium sucidum (L. Koch, 1879) [PL, L]

GBIF http://www.gbif.org/species/4540658

- a. county: NOR-Buskerud; locality: Bakkestølen; verbatimElevation: 800; decimalLatitude: 60.9000; decimalLongitude: 8.2875; samplingProtocol: T; eventDate: 26/08/2000; habitat: Soil, humus, moss, undergrowth; recordNumber: 1 º, 1 AD, 5 DN,; recordedBy: MG
- b. county: NOR-Hordaland; locality: Trondsbu, Hardangervidda; verbatimElevation: 1 200; decimalLatitude: 60.2906; decimalLongitude: 7.5481; samplingProtocol: T; eventDate: 22/08/1997; habitat: Moist soil, *Salix lapponum*; recordNumber: 1 ?, 16 AD, 14 DN; recordedBy: MG
- c. county: NOR-Hordaland; locality: Vikafjellet; verbatimElevation: 700; decimalLatitude: 60.9106; decimalLongitude: 6.4517; samplingProtocol: T; eventDate: 05/07/2004; habitat: Moss by the creek; recordNumber: 1 º, 7 DN; recordedBy: MG, AS
- county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 400;
 decimalLatitude: 61.5647; decimalLongitude: 7.9947; samplingProtocol: T; eventDate: 22/06/2000; habitat: Soil, humus, moss, undergrowth; recordNumber: 1 DN;
 recordedBy: MG, AK
- e. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 400; decimalLatitude: 61.5617; decimalLongitude: 7.9836; samplingProtocol: T; eventDate: 10/08/2000; habitat: Soil, moss, undergrowth; recordNumber: 2 \$, 3 AD; recordedBy: MG, GM
- f. county: NOR-Oppland; locality: Sognefjellet, in the vicinity of Krossbu; verbatimElevation: 1 450; decimalLatitude: 61.5667; decimalLongitude: 8.0183; samplingProtocol: T; eventDate: 10/08/2000; habitat: Soil, moss, undergrowth; recordNumber: 3 DN; recordedBy: MG, GM
- g. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 430; decimalLatitude: 61.5600; decimalLongitude: 8.0014; samplingProtocol: T; eventDate: 02/09/2000; habitat: Soil, moss, undergrowth; recordNumber: 4 º, 25 AD, 22 DN; recordedBy: MG, GM
- h. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 400;
 decimalLatitude: 61.5600; decimalLongitude: 7.9628; samplingProtocol: T; eventDate: 17/05/2003; habitat: Moss, soil; recordNumber: 1 AD, 5 L; recordedBy: MG, SS
- i. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 300; decimalLatitude: 61.5600; decimalLongitude: 7.9681; samplingProtocol: T; eventDate: 20/08/2006; habitat: Soil, moss, undergrowth; recordNumber: 2 AD, 3 DN; recordedBy: MG, JŁ
- j. county: NOR-Sogn og Fjordane; locality: Galdane; verbatimElevation: 300;
 decimalLatitude: 61.0611; decimalLongitude: 7.7278; samplingProtocol: T; eventDate:
 07/06/2001; habitat: Soil, moss, undergrowth; recordNumber: 1 º; recordedBy: MG

- k. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 725; decimalLatitude: 61.3442; decimalLongitude: 6.4664; samplingProtocol: T; eventDate: 16/09/2001; habitat: Moist humus; recordNumber: 2 AD, 1 DN; recordedBy: MG
- I. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: Moss and vegetation from elm tree trunk; recordNumber: 1 AD; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 980;
 decimalLatitude: 60.9964; decimalLongitude: 6.5461; samplingProtocol: T; eventDate: 23/09/2001; habitat: Moss, soil, humus; recordNumber: 2 DN; recordedBy: MG
- n. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 500; decimalLatitude: 61.3392; decimalLongitude: 6.3536; samplingProtocol: T; eventDate: 04/07/2002; habitat: Moss from small peatbog; recordNumber: 4 DN; recordedBy: MG, PS, SS
- o. county: NOR-Sogn og Fjordane; locality: Nystølen; verbatimElevation: 700; decimalLatitude: 61.3436; decimalLongitude: 6.4564; samplingProtocol: T; eventDate: 04/07/2002; habitat: Moss, soil; recordNumber: 1 ?, 2 DN; recordedBy: MG, PS, SS
- p. county: NOR-Sogn og Fjordane; locality: Sognefjellet, in the vicinity of Turtagrø; verbatimElevation: 1 200; decimalLatitude: 61.5208; decimalLongitude: 7.8258; samplingProtocol: T; eventDate: 04/08/2003; habitat: Soil, moss, undergrowth; recordNumber: 3 %, 6 AD, 23 DN; recordedBy: MG, MK
- q. county: FIN-Northern Ostrobothnia; locality: Oulunsalo, Varjakka; decimalLatitude: 65.0; decimalLongitude: 25.3; eventDate: 13/06/1987; habitat: Seashore meadow; recordNumber: 6 PL; recordedBy: PTL

Distribution: Norway (Trägårdh 1904, Berlese 1910, Mąkol and Gabryś 2002, Mąkol and Gulvik 2002), Sweden (Trägårdh 1902) and new for Finland.

Notes: *Microtrombidium pusillum* var. *pingue* Berlese, 1910 and *Microtrombidium norvegicum* Berlese, 1910 are junior synonyms (Berlese 1912, Gabryś 1999).

Subfamily Valgothrombiinae Gabryś, 1999

Enemothrombium bifoliosum (Canestrini, 1884) [PL, L]

• GBIF http://www.gbif.org/species/4540602

- a. county: NOR-Hordaland; locality: Hola; verbatimElevation: 570; decimalLatitude:
 60.9019; decimalLongitude: 6.4836; samplingProtocol: T; eventDate: 25/06/2005; habitat: Litter, moss; recordNumber: 1 DN; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Anda; verbatimElevation: 100;
 decimalLatitude: 61.8461; decimalLongitude: 6.0817; samplingProtocol: T; eventDate: 02/02/2001; habitat: Litter, soil; recordNumber: 1 DN; recordedBy: MG
- c. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 500; decimalLatitude: 61.3392; decimalLongitude: 6.3536; samplingProtocol: T; eventDate: 04/07/2002; habitat: Moss from small peatbog; recordNumber: 1 ?, 1 DN; recordedBy: MG, PS, SS

- county: FIN-Southwest Finland; locality: Parainen, Sydmo, Ippos; decimalLatitude: 60.2; decimalLongitude: 22.1; eventDate: 06/09/1966; habitat: Pine mire; recordNumber: 3 PL; recordedBy: PTL
- e. county: FIN-Southwest Finland; locality: Nauvo, Sandö; decimalLatitude: 60.17; decimalLongitude: 22.09; eventDate: 09/09/1992; habitat: Pondside mire with *Calla*, *Comarum*, *Carex* spp.; recordNumber: 1 PL; recordedBy: PTL

Distribution: Norway (Mąkol and Gulvik 2002) and new for Finland.

Valgothrombium alpinum Willmann, 1940 [PL]

GBIF http://www.gbif.org/species/4540740

Materials

- a. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 1 AD; recordedBy: MG
- county: NOR-Vestfold; locality: Larvik; verbatimElevation: 100; decimalLatitude: 59.0703; decimalLongitude: 10.0341; samplingProtocol: T; eventDate: 03/10/2002; habitat: Moss, soil; recordNumber: 2 DN; recordedBy: MG

Distribution: New for Norway.

Valgothrombium confusum (Berlese, 1910) [PL]

GBIF http://www.gbif.org/species/4540741

Materials

- a. county: NOR-Sogn og Fjordane; locality: Balestrand; verbatimElevation: 100;
 decimalLatitude: 61.2081; decimalLongitude: 6.5281; samplingProtocol: T; eventDate: 31/07/2001; habitat: Rot from decaying tree trunk; recordNumber: 1 AD; recordedBy: MG, GM
- county: NOR-Vestfold; locality: In the vicinity of Berg; verbatimElevation: 50;
 decimalLatitude: 58.9886; decimalLongitude: 9.9003; samplingProtocol: T; eventDate: 03/10/2002; habitat: Rot from decaying tree trunk; recordNumber: 1 DN; recordedBy: MG
- c. county: FIN-Southwest Finland; locality: Kaarina, Kuusisto; decimalLatitude: 60.3; decimalLongitude: 22.3; samplingProtocol: P; eventDate: 15/07/1989 23/09/1989; habitat: Oak forest; recordNumber: 1 ?, 1 AD; recordedBy: SK

Distribution: New for Norway and Finland.

Valgothrombium major (Halbert, 1920) [PL]

GBIF http://www.gbif.org/species/4540734

Material

a. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 500; decimalLatitude: 61.3392; decimalLongitude: 6.3536; samplingProtocol: T;

eventDate: 04/07/2002; habitat: Moss from small peatbog; recordNumber: 2 AD;

recordedBy: MG, PS, SS

Distribution: Sweden (Willmann 1943) and new for Norway.

Valgothrombium mariae Mąkol & Łaydanowicz, 2010 [L]

GBIF http://www.gbif.org/species/7426675

Material

county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4903; decimalLongitude: 7.5736; samplingProtocol: T; eventDate: 08/05/2002; habitat: Rot from decaying tree trunk; recordNumber: 2 L; recordedBy: MG

Distribution: Norway (Makol and Łaydanowicz 2010).

Valgothrombium stuarti Baker, 1999 [L]

GBIF http://www.gbif.org/species/4540736

Material

a. county: SWE-Uppsala; locality: Biskops-Arnö (=TrapID 8); verbatimElevation: 10; decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate: 20/06/2005 - 18/07/2005 (=Coll.ID 1602); habitat: Northern beach, elm grove; recordNumber: 1 L; recordedBy: SMTP

Distribution: New for Sweden.

Valgothrombium valgum (George, 1909) [PL, L]

GBIF http://www.gbif.org/species/4540748

Materials

- a. county: FIN-Southwest Finland; locality: Parainen, Lapplahti, Kalastajakopinranta;
 decimalLatitude: 60.29; decimalLongitude: 22.09; eventDate: 26/07/1982; habitat:
 Limestone with *Thymus*, *Sedum annum* etc.; recordNumber: 1 AD, 3 DN; recordedBy:
 PTL
- b. county: FIN-Southwest Finland; locality: Nauvo, Sandö; decimalLatitude: 60.17; decimalLongitude: 22.09; eventDate: 9/09/1992; habitat: Pondside mire with *Calla*, *Comarum*, *Carex* spp.; recordNumber: 1 \$, 1 \$, 1 \$, 1 AD, 1 DN; recordedBy: PTL

Distribution: New for Finland.

Family Podothrombiidae Thor, 1935

Podothrombium bicolor (Hermann, 1804) [PL]

GBIF http://www.gbif.org/species/4541020

- a. county: NOR-Buskerud; locality: Granheim, by the river Hemsil; verbatimElevation: 550; decimalLatitude: 60.7783; decimalLongitude: 8.7597; samplingProtocol: T; eventDate: 26/08/2000; habitat: By the river, soil, moss, litter, undergrowth; recordNumber: 1 DN; recordedBy: MG
- county: NOR-Buskerud; locality: Komnes; verbatimElevation: 80; decimalLatitude: 59.5078; decimalLongitude: 9.9167; samplingProtocol: T; eventDate: 03/10/2002; habitat: Moss, litter; recordNumber: 1 DN; recordedBy: MG
- c. county: NOR-Buskerud; locality: Efteløt; verbatimElevation: 70; decimalLatitude: 59.5517; decimalLongitude: 9.8042; samplingProtocol: T; eventDate: 03/10/2002; habitat: Moss, soil, litter; recordNumber: 1 AD, 9 DN; recordedBy: MG
- county: NOR-Buskerud; locality: Near Hostvet, at the level of Lande;
 verbatimElevation: 80; decimalLatitude: 59.6083; decimalLongitude: 9.7425;
 samplingProtocol: T; eventDate: 31/09/2002; habitat: Soil, moss, litter; recordNumber: 1 DN; recordedBy: MG
- e. county: NOR-Hordaland; locality: Skreidi, between Vaksdal and Fossmarki; verbatimElevation: 50; decimalLatitude: 60.4939; decimalLongitude: 5.7339; samplingProtocol: T; eventDate: 06/07/2001; habitat: Moss, soil, humus; recordNumber: 1 AD; recordedBy: MG
- f. county: NOR-Sogn og Fjordane; locality: Mo, in the vicinity of Moskog; verbatimElevation: 100; decimalLatitude: 61.4364; decimalLongitude: 5.9856; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, litter, soil, rot; recordNumber: 3 DN; recordedBy: MG
- g. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 300;
 decimalLatitude: 61.3314; decimalLongitude: 7.2144; samplingProtocol: T; eventDate: 25/05/2001; habitat: Soil, humus, undergrowth; recordNumber: 1 DN; recordedBy: MG, .JM
- h. county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 950; decimalLatitude: 60.9917; decimalLongitude: 6.5403; samplingProtocol: T; eventDate: 23/09/2001; habitat: Moss, soil, undergrowth; recordNumber: 1 DN; recordedBy: MG
- i. county: NOR-Sogn og Fjordane; locality: Hella; verbatimElevation: 100;
 decimalLatitude: 61.2083; decimalLongitude: 6.5975; samplingProtocol: T; eventDate: 23/09/2001; habitat: Moss, soil, litter; recordNumber: 6 DN; recordedBy: MG
- j. county: NOR-Sogn og Fjordane; locality: Hov, in the vicinity of Vik; verbatimElevation: 400; decimalLatitude: 61.3231; decimalLongitude: 6.2603; samplingProtocol: T; eventDate: 04/07/2002; habitat: Litter, moss, humus; recordNumber: 1 AD; recordedBy: MG, PS, SS
- county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 15/09/2002; habitat: Soil, undergrowth; recordNumber: 5 DN; recordedBy: MG
- I. county: NOR-Sogn og Fjordane; locality: In the vicinity of Kroken; verbatimElevation: 50; decimalLatitude: 61.3553; decimalLongitude: 7.3942; samplingProtocol: T; eventDate: 20/07/2003; habitat: Soil; recordNumber: 1 AD; recordedBy: MG

- m. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Fortun; verbatimElevation: 25; decimalLatitude: 61.4878; decimalLongitude: 7.6594; samplingProtocol: T; eventDate: 25/11/2005; habitat: Moss, decaying bark and humus from tree trunk; recordNumber: 2 DN; recordedBy: MG
- n. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4642; decimalLongitude: 7.5303; samplingProtocol: T; eventDate: 06/08/2006; habitat: Moss on stones close to stream; recordNumber: 1 %; recordedBy: MG, JŁ
- county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation:
 25; decimalLatitude: 61.4950; decimalLongitude: 7.5867; samplingProtocol: T;
 eventDate: 20/08/2006; habitat: Litter and soil; recordNumber: 2 DN; recordedBy: MG,
 JŁ
- p. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4914; decimalLongitude: 7.6050; samplingProtocol: T; eventDate: 06/09/2006; habitat: Moss, soil, humus, litter at decaying trunk; recordNumber: 2 DN; recordedBy: MG
- q. county: NOR-Sogn og Fjordane; locality: Kvål, in the vicinity of Grimeland; verbatimElevation: 150; decimalLatitude: 61.5122; decimalLongitude: 5.9925; samplingProtocol: T; eventDate: 22/09/2006; habitat: Riverside with alder, decomposed wood from tree trunk; recordNumber: 1 DN; recordedBy: MG
- r. county: NOR-Sogn og Fjordane; locality: Leirdal, in the vicinity of Gaupne; verbatimElevation: 75; decimalLatitude: 61.4628; decimalLongitude: 7.2497; samplingProtocol: T; eventDate: 25/12/2006; habitat: Decomposed wood and bark; recordNumber: 3 DN; recordedBy: MG
- s. county: NOR-Vestfold; locality: In the vicinity of Berg; verbatimElevation: 50; decimalLatitude: 58.9886; decimalLongitude: 9.9003; samplingProtocol: T; eventDate: 03/10/2002; habitat: Soil, moss, litter, undergrowth; recordNumber: 1 AD, 10 DN; recordedBy: MG
- t. county: NOR-Vestfold; locality: Larvik, Bøkeskogen; verbatimElevation: 50; decimalLatitude: 59.0592; decimalLongitude: 10.0200; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter, soil; recordNumber: 10 DN; recordedBy: MG
- u. county: NOR-Vestfold; locality: Rien, in the vicinity of Odberg; verbatimElevation: 50; decimalLatitude: 59.2708; decimalLongitude: 9.9300; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter, soil; recordNumber: 2 DN; recordedBy: MG

Distribution: Norway (Thor 1930, Mąkol and Gulvik 2002) and Finland (Nordberg 1936, Mąkol et al. 2006).

Podothrombium curtipalpe (Thor, 1900) [PL]

• GBIF http://www.gbif.org/species/4541023

Distribution: Norway (Thor 1900b), Sweden (Trägårdh 1904, Trägårdh 1910) and Finland (Makol et al. 2006).

Notes: Species listed by Trägårdh (1904) and Trägårdh (1910) as *Trombidium bicolor* var. *curtipalpe*.

Podothrombium filipes (C.L. Koch, 1837) [PL, L]

GBIF http://www.gbif.org/species/4541012

- a. county: NOR-Buskerud; locality: Søre, by the river Hallingdalselve; verbatimElevation: 180; decimalLatitude: 60.4667; decimalLongitude: 9.2456; samplingProtocol: T; eventDate: 26/08/2000; habitat: By the river, litter at the base of birch trunk; recordNumber: 1 %; recordedBy: MG
- county: NOR-Buskerud; locality: Noresund; verbatimElevation: 150; decimalLatitude: 60.1800; decimalLongitude: 9.6211; samplingProtocol: T; eventDate: 06/06/2001; habitat: Litter; recordNumber: 1 DN; recordedBy: MG
- c. county: NOR-Buskerud; locality: Near Hostvet, at the level of Lande;
 verbatimElevation: 80; decimalLatitude: 59.6083; decimalLongitude: 9.7425;
 samplingProtocol: T; eventDate: 30/09/2002; habitat: Soil, moss, litter; recordNumber: 3 DN; recordedBy: MG
- d. county: NOR-Hordaland; locality: Trondsbu, Hardangervidda; verbatimElevation: 1
 200; decimalLatitude: 60.2906; decimalLongitude: 7.5481; samplingProtocol: T; eventDate: 22/08/1997; habitat: Moist soil; recordNumber: 1 DN; recordedBy: MG
- e. county: NOR-Hordaland; locality: In the vicinity of Kolstallen and Bergen; verbatimElevation: 50; decimalLatitude: 60.4411; decimalLongitude: 5.4511; samplingProtocol: T; eventDate: 04/07/2001; habitat: Moss, soil, litter; recordNumber: 7 L; recordedBy: MG
- f. county: NOR-Hordaland; locality: Blinde; verbatimElevation: 100; decimalLatitude: 60.4639; decimalLongitude: 5.3786; samplingProtocol: T; eventDate: 04/07/2001; habitat: Moss, litter, soil, undergrowth; recordNumber: 6 L; recordedBy: MG
- g. county: NOR-Hordaland; locality: Vaksdal; verbatimElevation: 75; decimalLatitude: 60.4708; decimalLongitude: 5.7458; samplingProtocol: T; eventDate: 06/07/2001; habitat: Litter and soil from the bed of ravine; recordNumber: 4 L; recordedBy: MG
- h. county: NOR-Hordaland; locality: Stalheimskleiva; verbatimElevation: 125; decimalLatitude: 60.8431; decimalLongitude: 6.7111; samplingProtocol: T; eventDate: 04/10/2001; habitat: Litter, soil, moss and bark from decaying trunks; recordNumber: 2 \$; recordedBy: MG
- i. county: NOR-Hordaland; locality: Haukeland, in the vicinity of Bergen;
 verbatimElevation: 100; decimalLatitude: 60.3528; decimalLongitude: 5.4478;
 samplingProtocol: T; eventDate: 05/07/2004; habitat: Moist litter; recordNumber: 8 L;
 recordedBy: MG
- j. county: NOR-Hordaland; locality: Sandviki; verbatimElevation: 50; decimalLatitude: 60.4567; decimalLongitude: 5.6786; samplingProtocol: T; eventDate: 05/07/2004; habitat: Moss, humus; recordNumber: 18 L; recordedBy: MG
- k. county: NOR-Hordaland; locality: Between Fossmarki and Stanghelle; verbatimElevation: 50; decimalLatitude: 60.5308; decimalLongitude: 5.7247; samplingProtocol: T; eventDate: 05/07/2004; habitat: Litter, humus, moss, lady fern, bird cherry; recordNumber: 4 L; recordedBy: MG
- I. county: NOR-Hordaland; locality: Evanger; verbatimElevation: 50; decimalLatitude: 60.6472; decimalLongitude: 6.1356; samplingProtocol: T; eventDate: 05/07/2004; habitat: Overgrown arable area, grassy forest bed, humus, litter, moss; recordNumber: 7 L; recordedBy: MG, AS
- m. county: NOR-Hordaland; locality: In the vicinity of Bulken; verbatimElevation: 75; decimalLatitude: 60.6314; decimalLongitude: 6.2744; samplingProtocol: T; eventDate:

25/06/2005; habitat: Rot from decaying tree trunk; recordNumber: 5 L; recordedBy: MG
 n. county: NOR-Hordaland; locality: In the vicinity of Bulken; verbatimElevation: 25; decimalLatitude: 60.6314; decimalLongitude: 6.2744; samplingProtocol: T; eventDate:

25/11/2005; habitat: Moss; recordNumber: 4 DN; recordedBy: MG

- o. county: NOR-Sogn og Fjordane; locality: Nigardsbreen; verbatimElevation: 350; decimalLatitude: 61.6764; decimalLongitude: 7.2083; samplingProtocol: T; eventDate: 20/09/2000; habitat: Foots of the Nigardsbreen glacier, near the lake Nigardsbreevatnet, birch forest, rot, very moist; recordNumber: 1 DN; recordedBy: MG
- p. county: NOR-Sogn og Fjordane; locality: Mo, in the vicinity of Moskog; verbatimElevation: 100; decimalLatitude: 61.4364; decimalLongitude: 5.9856; samplingProtocol: T; eventDate: 11/10/2000; habitat: Moss, soil, undergrowth; recordNumber: 2 ?, 3 DN; recordedBy: MG
- q. county: NOR-Sogn og Fjordane; locality: Førde; verbatimElevation: 100; decimalLatitude: 61.4550; decimalLongitude: 5.8581; samplingProtocol: T; eventDate: 11/10/2000; habitat: Soil, moss; recordNumber: 1 DN; recordedBy: MG
- r. county: NOR-Sogn og Fjordane; locality: In the vicinity of Bøyabreen; verbatimElevation: 150; decimalLatitude: 61.4811; decimalLongitude: 6.7419; samplingProtocol: T; eventDate: 11/10/2000; habitat: Litter; recordNumber: 1 DN; recordedBy: MG
- s. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5419; decimalLongitude: 6.5378; samplingProtocol: T; eventDate: 11/10/2000; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG
- t. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5447; decimalLongitude: 6.5106; samplingProtocol: T; eventDate: 11/10/2000; habitat: Litter; recordNumber: 2 DN; recordedBy: MG
- u. county: NOR-Sogn og Fjordane; locality: Grinde; verbatimElevation: 120;
 decimalLatitude: 61.1847; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 13/11/2000; habitat: Rot from tree trunk; recordNumber: 2 DN; recordedBy: MG
- v. county: NOR-Sogn og Fjordane; locality: Anda; verbatimElevation: 100; decimalLatitude: 61.8461; decimalLongitude: 6.0817; samplingProtocol: T; eventDate: 02/02/2001; habitat: Litter, soil; recordNumber: 1 DN; recordedBy: MG
- w. county: NOR-Sogn og Fjordane; locality: Balestrand; verbatimElevation: 100;
 decimalLatitude: 61.2081; decimalLongitude: 6.5281; samplingProtocol: T; eventDate: 31/07/2001; habitat: Soil, moss, undergrowth; recordNumber: 10 L; recordedBy: MG, GM
- x. county: NOR-Sogn og Fjordane; locality: Ytredalen, in the vicinity of Vadheim; verbatimElevation: 100; decimalLatitude: 61.2336; decimalLongitude: 5.8225; samplingProtocol: T; eventDate: 31/07/2001; habitat: Soil, moss, undergrowth; recordNumber: 6 L; recordedBy: MG, GM
- y. county: NOR-Sogn og Fjordane; locality: Sande; verbatimElevation: 75; decimalLatitude: 61.3247; decimalLongitude: 5.7947; samplingProtocol: T; eventDate: 31/07/2001; habitat: Moss, soil; recordNumber: 1 L; recordedBy: MG, GM
- z. county: NOR-Sogn og Fjordane; locality: In the vicinity of Førde; verbatimElevation: 300; decimalLatitude: 61.4108; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 31/07/2001; habitat: Moss, soil, undergrowth; recordNumber: 2 L; recordedBy: MG, GM

- aa. county: NOR-Sogn og Fjordane; locality: In the vicinity of Urnes; verbatimElevation: 50; decimalLatitude: 61.3072; decimalLongitude: 7.3422; samplingProtocol: T; eventDate: 19/08/2001; habitat: Moss, soil; recordNumber: 1 º, 1 L; recordedBy: MG, GM
- ab. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 725; decimalLatitude: 61.3442; decimalLongitude: 6.4664; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, moss, undergrowth; recordNumber: 1 DN; recordedBy: MG
- ac. county: NOR-Sogn og Fjordane; locality: Kusslia, in the vicinity of Moskog; verbatimElevation: 50; decimalLatitude: 61.4347; decimalLongitude: 5.9583; samplingProtocol: T; eventDate: 16/09/2001; habitat: Soil, undergrowth; recordNumber: 1 9, 7 DN; recordedBy: MG
- ad. county: NOR-Sogn og Fjordane; locality: Astruptunet; verbatimElevation: 200; decimalLatitude: 61.5119; decimalLongitude: 6.3028; samplingProtocol: T; eventDate: 16/09/2001; habitat: Moss, soil, undergrowth; recordNumber: 13 DN, 3 L; recordedBy: MG
- ae. county: NOR-Sogn og Fjordane; locality: Vikafjellet; verbatimElevation: 950; decimalLatitude: 60.9917; decimalLongitude: 6.5403; samplingProtocol: T; eventDate: 23/09/2001; habitat: Moss, soil, undergrowth; recordNumber: 1 DN; recordedBy: MG
- af. county: NOR-Sogn og Fjordane; locality: Grinde; verbatimElevation: 120; decimalLatitude: 61.1847; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 19/10/2001; habitat: Rot from elm tree trunk; recordNumber: 1 DN; recordedBy: MG
- ag. county: NOR-Sogn og Fjordane; locality: Svanøy; verbatimElevation: 100; decimalLatitude: 61.4828; decimalLongitude: 5.0972; samplingProtocol: T; eventDate: 11/11/2001; habitat: Moss, soil, undergrowth; recordNumber: 1 °; recordedBy: MG
- ah. county: NOR-Sogn og Fjordane; locality: In the vicinity of Nystølen; verbatimElevation: 500; decimalLatitude: 61.3392; decimalLongitude: 6.3536; samplingProtocol: T; eventDate: 04/07/2002; habitat: Bark with moss from the edge of forest covering the upper part of moraine; recordNumber: 2 L; recordedBy: MG, PS, SS
- ai. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate:
 15/09/2002; habitat: Soil, undergrowth; recordNumber: 1 AD, 14 DN; recordedBy: MG
- aj. county: NOR-Sogn og Fjordane; locality: Mørkri, in the vicinity of Skjolden; verbatimElevation: 150; decimalLatitude: 61.5567; decimalLongitude: 7.6208; samplingProtocol: T; eventDate: 20/04/2003; habitat: Moss from decaying elm branch, soil, undergrowth; recordNumber: 4 DN; recordedBy: MG, GM
- ak. county: NOR-Sogn og Fjordane; locality: Urnes; verbatimElevation: 50; decimalLatitude: 61.3017; decimalLongitude: 7.3203; samplingProtocol: T; eventDate: 20/07/2003; habitat: Moss, soil, undergrowth; recordNumber: 4 L; recordedBy: MG
- al. county: NOR-Sogn og Fjordane; locality: Feigum; verbatimElevation: 25; decimalLatitude: 61.3839; decimalLongitude: 7.4239; samplingProtocol: T; eventDate: 20/07/2003; habitat: Moss by the stream mouth; recordNumber: 9 L; recordedBy: MG
- am. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 08/08/2003; habitat: Soil, undergrowth; recordNumber: 1 &; recordedBy: MG
- an. county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325; decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 20/09/2003; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Hafslo; verbatimElevation: 325;
 decimalLatitude: 61.3264; decimalLongitude: 7.2175; samplingProtocol: T; eventDate: 28/09/2003; habitat: Soil, undergrowth; recordNumber: 1 DN; recordedBy: MG

- ap. county: NOR-Sogn og Fjordane; locality: In the vicinity of Feigum; verbatimElevation: 25; decimalLatitude: 61.4006; decimalLongitude: 7.4697; samplingProtocol: T; eventDate: 20/07/2004; habitat: Humus; recordNumber: 1 AD; recordedBy: MG
- aq. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 25; decimalLatitude: 61.4950; decimalLongitude: 7.5867; samplingProtocol: T; eventDate: 23/03/2005; habitat: Humus, bark at the base of Salix caprea; recordNumber: 2 DN; recordedBy: MG
- ar. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4733; decimalLongitude: 7.2547; samplingProtocol: T; eventDate: 15/05/2005; habitat: Soil, humus, at the base of alder trees; recordNumber: 1 DN; recordedBy: MG, GM
- as. county: NOR-Sogn og Fjordane; locality: Jostedalen, in the vicinity of Gaupne; verbatimElevation: 50; decimalLatitude: 61.4917; decimalLongitude: 7.2681; samplingProtocol: T; eventDate: 15/05/2005; habitat: Rot from alder tree trunk, humus; recordNumber: 3 DN; recordedBy: MG, GM
- at. county: NOR-Sogn og Fjordane; locality: Mørkri, in the vicinity of Skjolden; verbatimElevation: 150; decimalLatitude: 61.5567; decimalLongitude: 7.6208; samplingProtocol: T; eventDate: 30/08/2005; habitat: Meadow with trees, moss, litter, soil, rot; recordNumber: 3 °, 1 AD, 8 DN; recordedBy: MG
- au. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4639; decimalLongitude: 7.5300; samplingProtocol: T; eventDate: 05/11/2005; habitat: Moss, leaves, branches, soil; recordNumber: 2 DN; recordedBy: MG
- av. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster; verbatimElevation: 25; decimalLatitude: 61.4719; decimalLongitude: 7.5461; samplingProtocol: T; eventDate: 05/11/2005; habitat: Forest edge, sandy-clayey soil with moss; recordNumber: 4 DN; recordedBy: MG
- aw. county: NOR-Sogn og Fjordane; locality: Between Skjolden and Fortun; verbatimElevation: 25; decimalLatitude: 61.4878; decimalLongitude: 7.6594; samplingProtocol: T; eventDate: 25/11/2005; habitat: Moss from birch tree trunk; recordNumber: 1 DN; recordedBy: MG
- ax. county: NOR-Sogn og Fjordane; locality: In the vicinity of Opptun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: C; eventDate: 01/07/2006; habitat: Bushes; recordNumber: 1 L; recordedBy: JŁ, MG
- ay. county: NOR-Sogn og Fjordane; locality: Opptun; verbatimElevation: 400; decimalLatitude: 61.4997; decimalLongitude: 7.7247; samplingProtocol: T; eventDate: 07/08/2006; habitat: Humus and moss by the riverside; recordNumber: 7 L; recordedBy: JŁ, MG
- az. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4914; decimalLongitude: 7.6050; samplingProtocol: T; eventDate: 06/09/2006; habitat: Moss and soil; recordNumber: 1 DN; recordedBy: MG
- ba. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4914; decimalLongitude: 7.6050; samplingProtocol: T; eventDate: 06/09/2006; habitat: Moss, soil, humus; recordNumber: 1 º, 1 DN; recordedBy: MG
- bb. county: NOR-Sogn og Fjordane; locality: Kvål, in the vicinity of Grimeland; verbatimElevation: 150; decimalLatitude: 61.5122; decimalLongitude: 5.9925; samplingProtocol: T; eventDate: 22/09/2006; habitat: Moss, soil, humus, rot by the riverside, alder trees; recordNumber: 1 AD, 15 DN; recordedBy: MG
- bc. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skei; verbatimElevation: 200; decimalLatitude: 61.6483; decimalLongitude: 6.5200; samplingProtocol: T; eventDate:

- 22/09/2006; habitat: Soil, moss and rot from surroundings of grey alder; recordNumber: 1 °, 5 DN; recordedBy: MG
- bd. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4994; decimalLongitude: 7.6097; samplingProtocol: T; eventDate: 09/12/2006; habitat: Litter and soil at the base of birch; recordNumber: 1 DN; recordedBy: MG, MW
- be. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4994; decimalLongitude: 7.6097; samplingProtocol: T; eventDate: 09/12/2006; habitat: House garden, decaying raspberry shrubs; recordNumber: 1 DN; recordedBy: MG, MW
- bf. county: NOR-Sogn og Fjordane; locality: Leirdal, in the vicinity of Gaupne; verbatimElevation: 75; decimalLatitude: 61.4628; decimalLongitude: 7.2497; samplingProtocol: T; eventDate: 25/12/2006; habitat: Decomposed wood, humus, moss; recordNumber: 7 DN; recordedBy: MG
- bg. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 08/09/2007; habitat: Slope near road, very moist grass, moss, soil; recordNumber: 2 \$, 1 AD; recordedBy: JŁ
- bh. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4919; decimalLongitude: 7.6058; samplingProtocol: U; eventDate: 10/09/2007; habitat: Moderately moist meadow, close to river and forest, grass, moss and soil; recordNumber: 1 º; recordedBy: JŁ
- bi. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6056; samplingProtocol: U; eventDate: 11/09/2007; habitat: River bank, grass, moss, in humic soil; recordNumber: 3 *; recordedBy: JŁ
- bj. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 17/09/2007; habitat: Slope near road, very moist grass, moss, soil; recordNumber: 1 °, 3 DN; recordedBy: JŁ
- bk. county: NOR-Vestfold; locality: Larvik; verbatimElevation: 100; decimalLatitude: 59.0703; decimalLongitude: 10.0341; samplingProtocol: T; eventDate: 03/10/2002; habitat: Moss, soil; recordNumber: 1 º; recordedBy: MG

Distribution: Norway Thor 1900b, Berlese 1910, Haitlinger 2000, Mąkol and Gulvik 2002), Sweden (Andersén 1863) and Finland (Mąkol 2000a, Mąkol et al. 2006).

Notes: *Podothrombium magnum* Berlese, 1910 and *Podothrombium roari* Haitlinger, 2000 are junior synonyms (Mąkol 2005).

Podothrombium kordulae Haitlinger, 1995 [L]

• GBIF http://www.gbif.org/species/4541002

Materials

a. county: NOR-Akershus; locality: Østmarka; verbatimElevation: 250; decimalLatitude: 59.8425; decimalLongitude: 11.0338; samplingProtocol: T; eventDate: 07/06/2002; habitat: Decomposed wood from the inside of decaying tree trunk; recordNumber: 3 L; recordedBy: MG

- county: NOR-Buskerud; locality: Gulsvik; verbatimElevation: 150; decimalLatitude: 60.3811; decimalLongitude: 9.6133; samplingProtocol: T; eventDate: 07/06/2001; habitat: Litter, soil; recordNumber: 2 L; recordedBy: MG
- c. county: NOR-Hordaland; locality: Hola; verbatimElevation: 570; decimalLatitude: 60.9019; decimalLongitude: 6.4836; samplingProtocol: T; eventDate: 25/06/2005; habitat: Litter, moss; recordNumber: 6 L; recordedBy: MG
- d. county: NOR-Sogn og Fjordane; locality: In the vicinity of Førde; verbatimElevation: 300; decimalLatitude: 61.4108; decimalLongitude: 5.8178; samplingProtocol: T; eventDate: 31/07/2001; habitat: Moss, soil, undergrowth; recordNumber: 2 L; recordedBy: MG, GM
- e. county: NOR-Sogn og Fjordane; locality: Hov, in the vicinity of Vik; verbatimElevation: 400; decimalLatitude: 61.3231; decimalLongitude: 6.2603; samplingProtocol: T; eventDate: 04/07/2002; habitat: Litter, moss, humus; recordNumber: 2 L; recordedBy: MG, PS, SS

Distribution: New for Norway.

Podothrombium strandi Berlese, 1910 [PL]

• GBIF http://www.gbif.org/species/4541011

Materials

- a. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 400;
 decimalLatitude: 61.5617; decimalLongitude: 7.9836; samplingProtocol: T; eventDate: 10/08/2000; habitat: Soil, moss, undergrowth; recordNumber: 1 AD, 2 DN; recordedBy: MG, GM
- county: NOR-Oppland; locality: Sognefjellet, in the vicinity of Krossbu;
 verbatimElevation: 1 450; decimalLatitude: 61.5667; decimalLongitude: 8.0183;
 samplingProtocol: T; eventDate: 10/08/2000; habitat: Soil, moss, undergrowth;
 recordNumber: 2 AD, 1 DN; recordedBy: MG, GM
- c. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 430;
 decimalLatitude: 61.5600; decimalLongitude: 8.0014; samplingProtocol: T; eventDate:
 02/09/2000; habitat: Soil, moss, undergrowth; recordNumber: 4 AD, 4 DN; recordedBy:
 MG, GM
- d. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 300;
 decimalLatitude: 61.5600; decimalLongitude: 7.9681; samplingProtocol: T; eventDate: 20/08/2006; habitat: Moss, litter; recordNumber: 1 DN; recordedBy: MG, JŁ
- e. county: NOR-Sogn og Fjordane; locality: Hegg; verbatimElevation: 400; decimalLatitude: 61.0808; decimalLongitude: 7.8981; samplingProtocol: T; eventDate: 26/08/2000; habitat: Rot from decaying tree trunk, by the stream; recordNumber: 1 ?; recordedBy: MG

Distribution: Norway (Berlese 1910) and Finland (Makol et al. 2006).

Podothrombium svalbardense Oudemans, 1930 [L]

GBIF http://www.gbif.org/species/4541030

Material

a. county: NOR-Oppland; locality: Sognefjellet; verbatimElevation: 1 430;
 decimalLatitude: 61.5600; decimalLongitude: 8.0014; samplingProtocol: T; eventDate: 02/09/2000; habitat: Soil, moss, undergrowth; recordNumber: 2 L; recordedBy: MG, GM

Distribution: Norway (Oudemans 1930 in: Thor 1930).

Podothrombium sp.

Material

county: NOR-Hordaland; locality: Trondsbu, Hardangervidda; verbatimElevation: 1
 200; decimalLatitude: 60.2906; decimalLongitude: 7.5481; samplingProtocol: T;
 eventDate: 22/08/1997; habitat: Moist soil, Salix lapponum trees; recordNumber: 4 L;
 recordedBy: MG

Notes: Potential new species for science from Norway. Morphologically near *Podothrombium piriforme* Robaux and Schiess, 1982.

Family Tanaupodidae Thor, 1935

Rhinothrombium nemoricola (Berlese, 1886) [PL]

GBIF http://www.gbif.org/species/4540909

Distribution: Norway (Makol and Gulvik 2002).

Tanaupodus bifurcatus Carl, 1966 [PL]

GBIF https://www.gbif.org/species/4540907

Distribution: Norway (Carl 1966).

Notes: Only single record in literature (Carl 1966) and no recent occurrences since then. Identification questionable.

Tanaupodus passimpilosus Berlese, 1910 [PL]

GBIF http://www.gbif.org/species/4540906

Distribution: Norway (Oudemans 1927).

Notes: Only single record in literature (Oudemans 1927) and no recent occurrences since then. Identification questionable.

Family Trombellidae Thor, 1935

Subfamily Trombellinae Thor, 1935

Nothrotrombidium otiorum (Berlese, 1902) [PL, L]

GBIF http://www.gbif.org/species/4540922

Distribution: Norway (Berlese 1912).

Notes: Only single record in literature (Berlese 1912) and no recent occurrences since then. Identification questionable.

Family Trombiculidae Ewing, 1929

Subfamily Trombiculinae Ewing, 1929

Hirsutiella zachvatkini (Schluger, 1948) [PL, L]

GBIF http://www.gbif.org/species/4541170

Material

a. county: FIN-Southwest Finland; locality: Rymättylä, Alakylä, Isoluoto; decimalLatitude: 60.30; decimalLongitude: 21.97; eventDate: 04/09/1997; habitat: Litter of alder and decaying reed on seashore; recordNumber: 1 PL; recordedBy: PTL

Distribution: Norway (Mehl 1979), Sweden (Edler 1969, Edler 1972) and new for Finland.

Leptotrombidium russicum (Oudemans, 1902) [PL, L]

GBIF https://www.gbif.org/species/4541159

Material

county: FIN-Southwest Finland; locality: Raisio, Kaanaa; decimalLatitude: 60.46;
 decimalLongitude: 22.09; samplingProtocol: U; eventDate: 28/08/1986; habitat: Ears of Eptesicus nilssonii; recordNumber: 9 L; recordedBy: PTL, AKA

Distribution: New for Finland.

Neotrombicula autumnalis (Shaw, 1790) [PL, L]

GBIF http://www.gbif.org/species/4541106

Material

county: FIN-Southwest Finland; locality: Nauvo, Gullkrona village; decimalLatitude:
 60.0; decimalLongitude: 22.0; eventDate: 06/12/1982; habitat: N harbour, tussocks of grass with burrows of *Microtus agrestis*; recordNumber: 1 AD; recordedBy: PTL

Distribution: Norway (Stekolnikov and Daniel 2012), Sweden (Stekolnikov and Daniel 2012) and Finland (Stekolnikov and Daniel 2012).

Notes: We could not locate the published records in Fennoscandia, except for reference to the presence of *N. autumnalis* in Norway, Sweden and Finland, provided by Stekolnikov and Daniel (2012). Moreover, *N. autumnalis* has been reported in health care. One record, probably unpublished, from Öland, Sweden, in Lundqvist's collection (Zoological Museum in Lund).

Neotrombicula talmiensis (Schluger, 1955) [PL, L]

GBIF http://www.gbif.org/species/4541104

Material

county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster;
 verbatimElevation: 25; decimalLatitude: 61.4719; decimalLongitude: 7.5461;
 samplingProtocol: T; eventDate: 05/11/2005; habitat: Forest edge, sandy-clayey soil,
 moss; recordNumber: 1 DN; recordedBy: MG

Distribution: New for Norway.

Neotrombicula vulgaris (Schluger, 1955) [L]

GBIF https://www.gbif.org/species/4541093

Materials

- a. county: NOR-Sogn og Fjordane; locality: Near Kjøsnesfjorden, in the vicinity of Kjøsnes; verbatimElevation: 250; decimalLatitude: 61.5419; decimalLongitude: 6.5378; samplingProtocol: T; eventDate: 11/10/2000; habitat: Rot from decaying tree trunk; recordNumber: 3 L; recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: In the vicinity of Urnes; verbatimElevation: 50; decimalLatitude: 61.3072; decimalLongitude: 7.3422; samplingProtocol: T; eventDate: 19/08/2001; habitat: Soil; recordNumber: 1 L; recordedBy: MG, GM
- c. county: NOR-Sogn og Fjordane; locality: Kroken; verbatimElevation: 50;
 decimalLatitude: 61.3403; decimalLongitude: 7.3967; samplingProtocol: T; eventDate:
 19/08/2001; habitat: Soil at the base of elm tree; recordNumber: 5 L; recordedBy: MG,
 GM
- d. county: NOR-Sogn og Fjordane; locality: Mørkri, in the vicinity of Skjolden; verbatimElevation: 150; decimalLatitude: 61.5567; decimalLongitude: 7.6208; samplingProtocol: T; eventDate: 30/08/2005; habitat: Common nettle, cocksfoot, tufted hair grass, litter; recordNumber: 1 L; recordedBy: MG

Distribution: New for Norway.

Genus Hannemania Oudemans, 1911

Distribution: Sweden (Sellnick 1949).

Notes: Only nymph of *Hannemannia* recorded (Sellnick 1949) and no recent occurrences since then. Identification questionable.

Family Trombidiidae Leach, 1815

Subfamily Allothrombiinae Thor, 1935

Allothrombium fuliginosum (Hermann, 1804) [PL, L]

GBIF http://www.gbif.org/species/4540875

Materials

- county: NOR-Sogn og Fjordane; locality: Between Skjolden and Luster;
 verbatimElevation: 25; decimalLatitude: 61.4719; decimalLongitude: 7.5461;
 samplingProtocol: T; eventDate: 05/11/2005; habitat: Soil; recordNumber: 1 DN;
 recordedBy: MG
- county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25;
 decimalLatitude: 61.4911; decimalLongitude: 7.6008; samplingProtocol: U; eventDate: 05/09/2007; habitat: Stone wall covered with moss, very dry; recordNumber: 1 AD; recordedBy: JŁ
- c. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4911; decimalLongitude: 7.6008; samplingProtocol: U; eventDate: 10/09/2007; habitat: Stone wall covered with moss, very dry; recordNumber: 10 &, 16 AD, 5 DN; recordedBy: JŁ

Distribution: Norway (Thor 1900b, Haitlinger 2000), Sweden (Andersén 1863) and Finland (Krogerus 1960, Makol et al. 2006).

Subfamily Paratrombiinae Feider, 1959

Paratrombium insulare (Berlese, 1910) [PL, L]

GBIF http://www.gbif.org/species/4540766

Distribution: Norway (Mąkol and Gulvik 2002) and Finland (Mąkol 2000b, Mąkol et al. 2006).

Subfamily Trombidiinae Leach, 1815

Trombidium brevimanum (Berlese, 1910) [PL, L]

GBIF http://www.gbif.org/species/4540853

Distribution: Norway (Berlese 1912) and Finland (Nordberg 1936, Makol et al. 2006).

Trombidium geniculatum (Feider, 1955) [PL, L]

• GBIF http://www.gbif.org/species/4540844

Materials

- a. county: NOR-Vestfold; locality: Larvik, Bøkeskogen; verbatimElevation: 50; decimalLatitude: 59.0592; decimalLongitude: 10.0200; samplingProtocol: T; eventDate: 03/10/2002; habitat: Litter, soil; recordNumber: 1 &; recordedBy: MG
- county: SWE-Uppsala; locality: Biskops-Arnö (=TrapID 8); verbatimElevation: 10; decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate: 20/06/2005 18/07/2005 (=Coll.ID 1602); habitat: Northern beach, elm grove; recordNumber: 1 L; recordedBy: SMTP

Distribution: Norway (Makol and Gulvik 2002) and new for Sweden.

Trombidium heterotrichum (Berlese, 1910) [PL]

GBIF http://www.gbif.org/species/4540829

Distribution: Norway (Berlese 1910) and Finland (Makol 2003).

Trombidium holosericeum (Linnaeus, 1758) [PL, L]

GBIF http://www.gbif.org/species/4540860

Materials

- county: SWE-Jönköping; locality: Jönköping, Shore of Lake Vättern; verbatimElevation:
 100; decimalLatitude: 57.7933; decimalLongitude: 14.2565; samplingProtocol: U;
 eventDate: 09/06/2013; habitat: Maple and birch copse on shore, sand, leaf,
 bryophytes; recordNumber: 3 PL; recordedBy: JS, MF, RH
- county: SWE-Uppsala; locality: Biskops-Arnö (=TrapID 8); verbatimElevation: 10; decimalLatitude: 59.6721; decimalLongitude: 17.5009; samplingProtocol: M; eventDate: 20/06/2005 18/07/2005 (=Coll.ID 1602); habitat: Northern beach, elm grove; recordNumber: 1 L; recordedBy: SMTP

Distribution: Norway (Thor 1900b, Haitlinger 2000, Mąkol 2002, Mąkol and Gulvik 2002), Sweden (Linnaeus 1758, de Geer 1778, Sellnick 1958) and Finland (Nordberg 1936, Krogerus 1960, Mąkol and Wohltmann 2000, Mąkol et al. 2006).

Notes: *Acarus parasiticus* de Geer, 1778 is a junior synonym.

Trombidium latum C.L. Koch, 1837 [PL, L]

GBIF http://www.gbif.org/species/4540816

- a. county: NOR-Buskerud; locality: Ørgenvika; verbatimElevation: 150; decimalLatitude: 60.2858; decimalLongitude: 9.6878; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter; recordNumber: 1 °; recordedBy: MG
- county: NOR-Hordaland; locality: Skreidi, between Vaksdal and Fossmarki; verbatimElevation: 52; decimalLatitude: 60.4939; decimalLongitude: 5.7339; samplingProtocol: T; eventDate: 06/07/2001; habitat: Humus; recordNumber: 1 AD; recordedBy: MG
- c. county: NOR-Sogn og Fjordane; locality: Grinde; verbatimElevation: 120;
 decimalLatitude: 61.1847; decimalLongitude: 6.7406; samplingProtocol: T; eventDate: 12/11/2000; habitat: Rot from tree trunk; recordNumber: 1 DN; recordedBy: MG
- d. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 50; decimalLatitude: 61.4903; decimalLongitude: 7.5736; samplingProtocol: T; eventDate: 08/05/2002; habitat: Litter, soil, moss; recordNumber: 1 , 2 AD, 1 DN,; recordedBy: MG
- e. county: NOR-Sogn og Fjordane; locality: Luster; verbatimElevation: 25; decimalLatitude: 61.4458; decimalLongitude: 7.4661; samplingProtocol: U; eventDate: 13/05/2002; habitat: Litter; recordNumber: 2 AD; recordedBy: MG
- f. county: NOR-Sogn og Fjordane; locality: In the vicinity of Opptun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: U; eventDate: 26/04/2005; habitat: Litter; recordNumber: 1 AD; recordedBy: MG
- g. county: NOR-Sogn og Fjordane; locality: Mørkri, in the vicinity of Skjolden; verbatimElevation: 150; decimalLatitude: 61.5567; decimalLongitude: 7.6208; samplingProtocol: T; eventDate: 30/08/2005; habitat: Meadow with trees, rot from decaying elm tree trunk; recordNumber: 1 AD; recordedBy: MG
- h. county: NOR-Sogn og Fjordane; locality: Between Opptun and Fortun; verbatimElevation: 600; decimalLatitude: 61.4978; decimalLongitude: 7.7492; samplingProtocol: T; eventDate: 15/11/2005; habitat: Soil, moss, wet ground; recordNumber: 1 AD, 1 DN; recordedBy: MG
- i. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4994; decimalLongitude: 7.6097; samplingProtocol: T; eventDate: 09/12/2006; habitat: House garden, decaying plants; recordNumber: 1 DN; recordedBy: MG, MW
- j. county: NOR-Sogn og Fjordane; locality: In the vicinity of Skjolden; verbatimElevation: 75; decimalLatitude: 61.4992; decimalLongitude: 7.6094; samplingProtocol: U; eventDate: 08/09/2007; habitat: Slope near road, very moist grass, moss, soil; recordNumber: 1 DN; recordedBy: JŁ
- k. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4903; decimalLongitude: 7.6014; samplingProtocol: U; eventDate: 11/09/2007; habitat: Alder trees by the river, grass, moss, damp soil; recordNumber: 1 AD; recordedBy: JŁ
- I. county: NOR-Sogn og Fjordane; locality: Skjolden; verbatimElevation: 25; decimalLatitude: 61.4933; decimalLongitude: 7.6081; samplingProtocol: U; eventDate: 17/09/2007; habitat: Birch and pine trees surrounded by buildings, soil; recordNumber: 1 DN; recordedBy: JŁ

- county: NOR-Vestfold; locality: In the vicinity of Nalum; verbatimElevation: 50;
 decimalLatitude: 58.9894; decimalLongitude: 9.9853; samplingProtocol: T; eventDate: 03/10/2002; habitat: Soil, litter; recordNumber: 1 DN; recordedBy: MG
- n. county: SWE-Södermanland; locality: Tullgarns näs, Rävsalaviken (=TrapID 30); verbatimElevation: 15; decimalLatitude: 58.9552; decimalLongitude: 17.6075; samplingProtocol: M; eventDate: 03/07/2004 19/08/2004 (=Coll.ID 1055); habitat: Mixed forest next to pasture; recordNumber: 1 L; recordedBy: SMTP

Distribution: Norway (Mąkol 2002, Mąkol and Gulvik 2002), Sweden (Andersén 1863) and Finland (Mąkol et al. 2006).

Trombidium mediterraneum (Berlese, 1910) [PL, L]

GBIF http://www.gbif.org/species/4540833

Materials

- a. county: NOR-Buskerud; locality: Morud; verbatimElevation: 200; decimalLatitude: 60.0603; decimalLongitude: 9.8594; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, undergrowth; recordNumber: 1 AD; recordedBy: MG
- county: NOR-Buskerud; locality: Morud; verbatimElevation: 200; decimalLatitude: 60.0603; decimalLongitude: 9.8594; samplingProtocol: T; eventDate: 06/06/2001; habitat: Soil, litter, undergrowth; recordNumber: 10 L; recordedBy: MG
- c. county: NOR-Buskerud; locality: Ørgenvika; verbatimElevation: 150; decimalLatitude: 60.2858; decimalLongitude: 9.6878; samplingProtocol: T; eventDate: 06/06/2001; habitat: Litter, soil; recordNumber: 1 AD, 1 DN; recordedBy: MG
- d. county: NOR-Hordaland; locality: Skreidi, between Vaksdal and Fossmarki; verbatimElevation: 50; decimalLatitude: 60.4939; decimalLongitude: 5.7339; samplingProtocol: T; eventDate: 06/07/2001; habitat: Moss, soil, humus; recordNumber: 1 DN; recordedBy: MG

Distribution: Norway (Judson and Makol 2011).

Trombidium rimosum C. L. Koch, 1837 [PL]

• GBIF http://www.gbif.org/species/4540852

Distribution: Sweden (Sellnick 1949) and Finland (Makol et al. 2006).

Notes: Sericothrombium meyeri Krausse, 1916 is a junior synonym (Makol 2005).

Discussion

Our study is part of the Swedish Taxonomy Initiative (STI) - one of the most ambitious All Taxa Biodiversity Inventories (ATBI) in the world (Ronquist and Gärdenfors 2003). One of the pillars in STI is to support taxonomic research on the most neglected taxonomic groups with the aim of raising the basic level of knowledge. For poorly known groups, the first step is an inventory resulting in a checklist of species. While doing so, it is also beneficial to

make available and publish the primary data. There are many reasons for this: facilitate the re-use of biological data, facilitate integration with other datasets and increase the potential for interdisciplinary research, transparency and increased quality of science, citeability, credit and monitoring use of collection data (Chavan and Penev 2011, Penev et al. 2011). This is becoming increasingly recognised by funding agencies and national governmental organisations in many countries.

The higher diversity, 80 species, for Norway is likely a result of the comparatively larger effort (71% of all visited localities were in Norway) and more recent studies (Makol and Gulvik 2002). The Norwegian non-marine arthropod fauna is commonly a smaller subset of the Swedish fauna, lacking more southern species occurring in Sweden. For some groups, however, Norway may instead house more oceanic or arctic species. Apart from collecting effort, the different number of species-level taxa, as well as species composition observed in Sweden, Finland and Norway, may also be due to biogeographical factors, landscape architecture and actual variety of biotopes. Solhøy et al. (1975) pointed to the decreasing tendency observed in the number of species along the gradient between the eastern and north-eastern territories of Finland, covered with continental tundra and towards alpine tundra influenced by Atlantic climate in Norway. Finland often also lacks some southern species occurring in Sweden, but instead may have eastern fauna elements not occurring in either Sweden or Norway. Even in Norway, the geographical area visited was quite limited, with most effort being spent in the county Sogn og Fjordane. Due to the intense collecting effort in different microhabitats, many species were recorded. Although the fauna is expected to be still more diverse due to the unsampled counties, the majority of species are only known from either larvae or active postlarval forms, which can contribute to some overestimations. Nevertheless, with the current classification, we predict that, if the same effort as in Norway was made in Sweden, over 80 species could be recorded in Sweden alone. The most frequent species was *Calyptostoma velutinum* (Müller, 1776), which was collected 70 times. The high number of observations occurring throughout the season may be due to the specific biology and phenology of Calyptostoma sp. reflected in synchronous occurrence of active life instars or it may reflect the occurrence of a species complex as suggested by Wohltmann et al. (1999). A DNA Barcoding effort of terrestrial Parasitengona mites could significantly help charting the diversity in Fennoscandia, reveal overlooked species or identify species complexes.

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